

**THE UNITED REPUBLIC OF TANZANIA  
MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY**



**CURRICULUM FOR ORDINARY SECONDARY EDUCATION  
FORM I – IV  
2023**

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Tanzania Institute of Education  
Mikocheni Area  
132 Ali Hassan Mwinyi Road  
P. O. Box 35094  
14112 Dar es Salaam

Mobile numbers: +255 735 041 168 / +255 735041170

E-mail: [director.general@tie.go.tz](mailto:director.general@tie.go.tz)

Website: [www.tie.go.tz](http://www.tie.go.tz)

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## **Abbreviations and Acronyms**

ICT	Information and Communications Technology
MoEST	Ministry of Education, Science and Technology
NACTVET	National Council for Technical and Vocational Education and Training
SADC	Southern African Development Community
TIE	Tanzania Institute of Education
TSL	Tanzania Sign Language

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Dr Aneth A. Komba  
Director General  
Tanzania Institute of Education

## Preface

The Curriculum for Ordinary Secondary Education, Form I-IV, was prepared following the 2014 Education and Training Policy, the 2023 Edition, stakeholders' opinions collected and analysed from 2021 to 2022, and a review of written documents to gain experience from other countries. Moreover, this Curriculum follows the vision of education which focuses on preparing an educated Tanzanian with knowledge, skills and positive attitudes and who values equality, justice and lifelong education to bring sustainable national and international development. Likewise, this Curriculum considers the main objectives of education as well as secondary education objectives, Form I-IV. Considering these objectives, this Curriculum sets standards for providing education at the secondary education level, Form I-IV, by specifying the knowledge, skills, and attitudes the student will develop, general competences, main learning areas, main and specific competences, and teaching and learning methods. Moreover, the Curriculum has specified the duration that will be used in the implementation, the language of learning and teaching, teaching and learning resources and methods of assessing the student's progress in terms of developing competences. Likewise, the Curriculum has specified the academic and professional qualifications for the teacher, who is the main implementer of the Curriculum at the ordinary secondary school.

Along with various policy statements and national, regional and international guidelines, this Curriculum is based on theories of student development and learning. Hence, its implementation will enable the student to develop physically, mentally, emotionally and socially. I expect that, through this Curriculum, the teacher will help the student to develop the intended competences. Likewise, all curriculum implementation supervisors and other stakeholders of education in the country will ensure that the education provided meets the standards accepted nationally, regionally and internationally.



Dr Lyabwene M. Mtahabwa  
Commissioner for Education

## **Part One**

### **Introduction**

#### **1.1 Background**

Many countries, including Tanzania, acknowledge that education is the right of every child and thus have been making various efforts to ensure that quality education is provided fairly and equally. These efforts are made because education is an important tool in the development of every child academically and morally and in the development of various talents and gifts. Due to the nation's commitment to building a country with a nationally competitive economy, the Government has aimed to build a society with knowledge, skills and a positive attitude that will enable full participation in developmental activities. Besides this commitment, Tanzania has ratified the 1997 Southern African Development Community (SADC) Protocol regarding education and training which requires member countries to have compulsory education for not less than nine years.

Tanzania is committed to providing quality and inclusive education based on the philosophy of Education for Self-Reliance founded in 1967 by the Father of the Nation, Mwalimu Julius Kambarage Nyerere. In addition, this curriculum is focused on building basic competences in the 21<sup>st</sup> Century Skills which are communication, collaboration, creativity, critical thinking, problem-solving, digital skills, ethics and patriotism. Therefore, this curriculum has been prepared to increase the number of Tanzanians with knowledge, skills and positive attitudes towards contributing to the development of the nation by considering the changes in science and technology and the requirements of the 21<sup>st</sup> century. The preparation of this curriculum has gone through various stages, including collecting the opinions of stakeholders, reviewing various documents and learning from the experiences of other countries for best practice that can be implemented in the Tanzanian environment.

#### **1.2 Structure of Ordinary Secondary Education, Form I – IV**

As directed by the 2014 Education and Training Policy, the 2023 Edition, Form I – IV secondary education will last for four (4) years. This secondary education is divided into two streams: General Education and Vocational Education. The student will choose a stream based on his/her preference, abilities and aspirations.

The General Education stream is divided into eleven (11) specialisations, which are Science, Agriculture, Sports, ICT, Business, Music, Social Science, Food and Nutrition, Textile and Garments Construction, Art and Language. Moreover, from Form I, the student will choose subjects from one of the streams based on his/her preference, ability and aspirations. Besides the subjects in their specialisations, all general education students can choose additional subjects, including those in the vocational education stream, based on the school timetable and capacity.

The Vocational Education stream is divided into fifteen (15) Main Fields, which are Electrical Engineering, Mechanical Engineering, Civil Engineering, Automotive Engineering, Transport and Logistics, Clothing and Textile, Agriculture and Food Processing and Tourism, Commercial and Business Support Services, Printing, Mineral Extraction and Processing, Cosmetology, Creative Arts, Electronics and Computer, and Sports. In addition, each main field has several specific occupations.

From Form I, the student will choose one specific occupation according to his or her wishes, abilities and aspirations. All students of the Vocational Education stream will have to study four (4) compulsory subjects which are Mathematics, Business Studies, English Language and *Historia ya Tanzania na Maadili*. In addition, student will study other academic subjects depending with his/her field. Vocational subjects will be undertaken in modular form. Successful completion of a number of modules in the given occupation led to National Vocational Awards (NVA). All Vocational Education students of Form I and II will learn the contents leading to the NVA Level 1, while Form III will learn the contents leading to NVA Level 2 and Form IV will learn the contents leading to NVA Level 3.

The student will begin Form I at the age of 12 and finish Form IV at the age of 15.

## Part Two

### Vision, Goals and General Competences

This Curriculum has considered the vision, goals and competences to be developed at every stage of Ordinary Secondary Education, Form I–IV.

#### 2.1 Vision of Tanzanian Education

To have an educated Tanzanian with knowledge, skills and positive attitudes, who values equality, justice and lifelong education in bringing sustainable national and international development.

#### 2.2 Main Objectives of Education in Tanzania

The main objectives of education in Tanzania are to enable every Tanzanian to:

- (a) Develop and improve his or her personality so that he or she values himself or herself and develops self-confidence;
- (b) Respect the culture, traditions and customs of Tanzania, cultural differences, dignity, human rights, attitudes and inclusive actions;
- (c) Develop knowledge and apply science and technology, creativity, critical thinking, innovation, cooperation, communication and positive attitudes for his or her own development and the sustainable development of the nation and the world at large;
- (d) Understand and protect national values, including dignity, patriotism, integrity, unity, transparency, honesty, accountability and the national language;
- (e) Develop life and work-related skills to increase efficiency in everyday life;
- (f) Develop a habit of loving and valuing work to increase productivity and efficiency in production and service provision;
- (g) Identify and consider cross-cutting issues, including the health and well-being of the society, gender equality, as well as the management and sustainable conservation of the environment; and
- (h) Develop national and international cooperation, peace and justice per the Constitution of the United Republic of Tanzania and international conventions.

### **2.3 Objectives of Ordinary Secondary Education – General Education**

The objectives of Ordinary Secondary Education – General Education are to:

- (a) Strengthen, broaden and develop a deeper understanding of the knowledge, skills and attitudes developed at the Primary Education level;
- (b) Safeguard customs and traditions, national unity, national values, democracy, respect for human and civil rights, duties and responsibilities associated with such rights;
- (c) Develop self-confidence and the ability to learn in various fields, including science and technology as well as theoretical and technical knowledge;
- (d) Improve communication using Tanzanian Sign Language (TSL), tactile communication, Kiswahili and English. The student should be encouraged to develop competence in at least one other foreign language, depending on the school situation;
- (e) Strengthen accountability for cross-cutting social issues, including health, security, gender equality and sustainable environmental conservation;
- (f) Develop competence and various skills which will enable the student to employ himself or herself, to be employed and to manage his or her life by exploiting his or her environment well; and
- (g) Develop readiness to continue to advanced secondary and tertiary education.

### **2.4 Objectives of Ordinary Secondary Education - Vocational Education**

The objectives of Ordinary Secondary Education, Vocational Education, are to:

- (a) Strengthen, broaden and develop a deeper understanding of the knowledge, skills and attitudes developed at the Primary Education level;
- (b) Develop technical and entrepreneurial skills that will enable him/her to employ oneself, to be employed and to manage life by using his/her environment appropriately;
- (c) Safeguard customs and traditions, national unity, national virtues, democracy, respect for human and civil rights, duties and responsibilities associated with such rights;
- (d) Strengthen communication using language skills;

- (e) Develop self-confidence and the ability to learn in various fields, including science and technology as well as theoretical and technical knowledge;
- (f) Strengthen accountability for cross-cutting social issues, including health, security, gender equality and sustainable environmental conservation; and
- (g) Develop readiness to continue to vocational and technical education or Advanced Secondary Education.

## **2.5 General Competences – General Education**

The general competences for Ordinary Secondary Education- General Education are to:

- (a) Use the knowledge and skills acquired in primary education to strengthen and broaden their understanding of general subjects;
- (b) Appreciate citizenship and national values;
- (c) Demonstrate self-confidence in learning various fields, including Science and Technology, theoretical and practical knowledge;
- (d) Use language skills, including Tanzania Sign Language (TSL), Kiswahili, English and at least one other foreign language to communicate;
- (e) Use the knowledge of cross-cutting issues to manage their surrounding environment; and
- (f) Use the knowledge and skills to employ oneself, be employed and manage life and the environment.

## **2.6 General Competences – Vocational Education Stream**

The general competences for Ordinary Secondary Education, Form 1–IV, Vocational Education stream are to:

- (a) Apply the knowledge, skills and attitudes the student developed in the primary school stage to increase his/her understanding of technical skills;
- (b) Apply technical skills in designing, inventing and making various things to cope with life and solve challenges in society;
- (c) Appreciate citizenship and national virtues;
- (d) Use language skills;

- (e) Demonstrate self-confidence in learning in various fields, including science and technology, technical knowledge and technical skills;
- (f) Apply technical knowledge and skills in designing, discovering and making various things to solve challenges in society, including cross-cutting issues;
- (g) Appreciate procedures and safety rules in using technical tools correctly; and
- (h) Apply the technical knowledge and skills acquired to develop oneself with vocational and technical education and join the workforce.

## Part Three

### Curriculum Contents

This part describes the learning areas and subjects for Ordinary Secondary Education, Form I – IV, General Education; Main field and Occupations for Vocational Education; and main and specific competences for various subjects.

#### 3.1 Learning Areas and Subjects – General Education

The learning areas and subjects at this stage are described in Table 1.

**Table 1:** *Learning Areas and Subjects*

No	Learning areas	Subjects
1.	Natural Science, Technology and Environment	1. Biology 2. Physics 3. Chemistry 4. Agriculture 5. Computer Science
2.	Social Science, Faith and Ethics	1. Geography 2. <i>Historia ya Tanzania na Maadili</i> 3. History 4. Bible Knowledge 5. <i>Elimu ya Dini ya Kiislamu</i>
3.	Mathematics	1. Mathematics 2. Additional Mathematics
4.	Language and Communication	1. <i>Kiswahili</i> 2. English Language 3. Chinese 4. Arabic 5. French 6. Literature in English 7. <i>Fasihi ya Kiswahili</i>
5.	Vocational Education, Entrepreneurship and Economics	1. Business Studies 2. Bookkeeping 3. Textile and Garment Construction 4. Food and Nutrition

No	Learning areas	Subjects
6.	Culture, Arts and Sports	1. Music 2. Sports 3. Fine Arts 4. Performing Arts

In addition, the specialisation and subjects for General Education are illustrated in Figure 1.

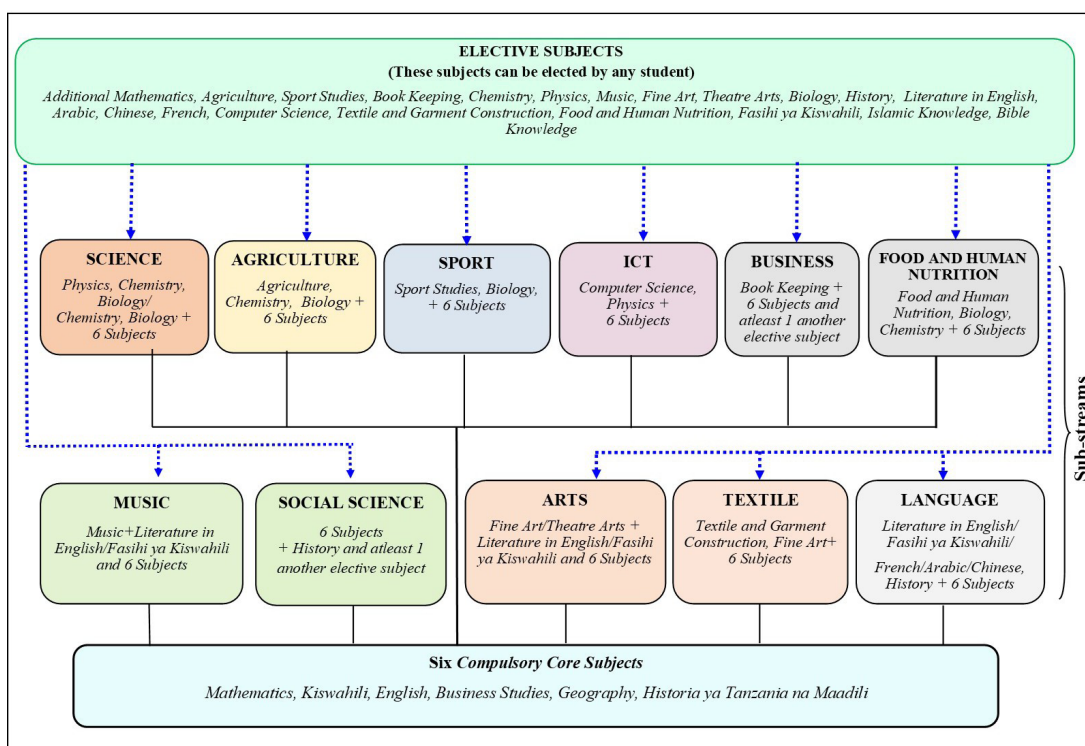


Figure 1: Specialisation and Subjects for General Education

### 3.2 Main Fields and Occupations - Vocational Education

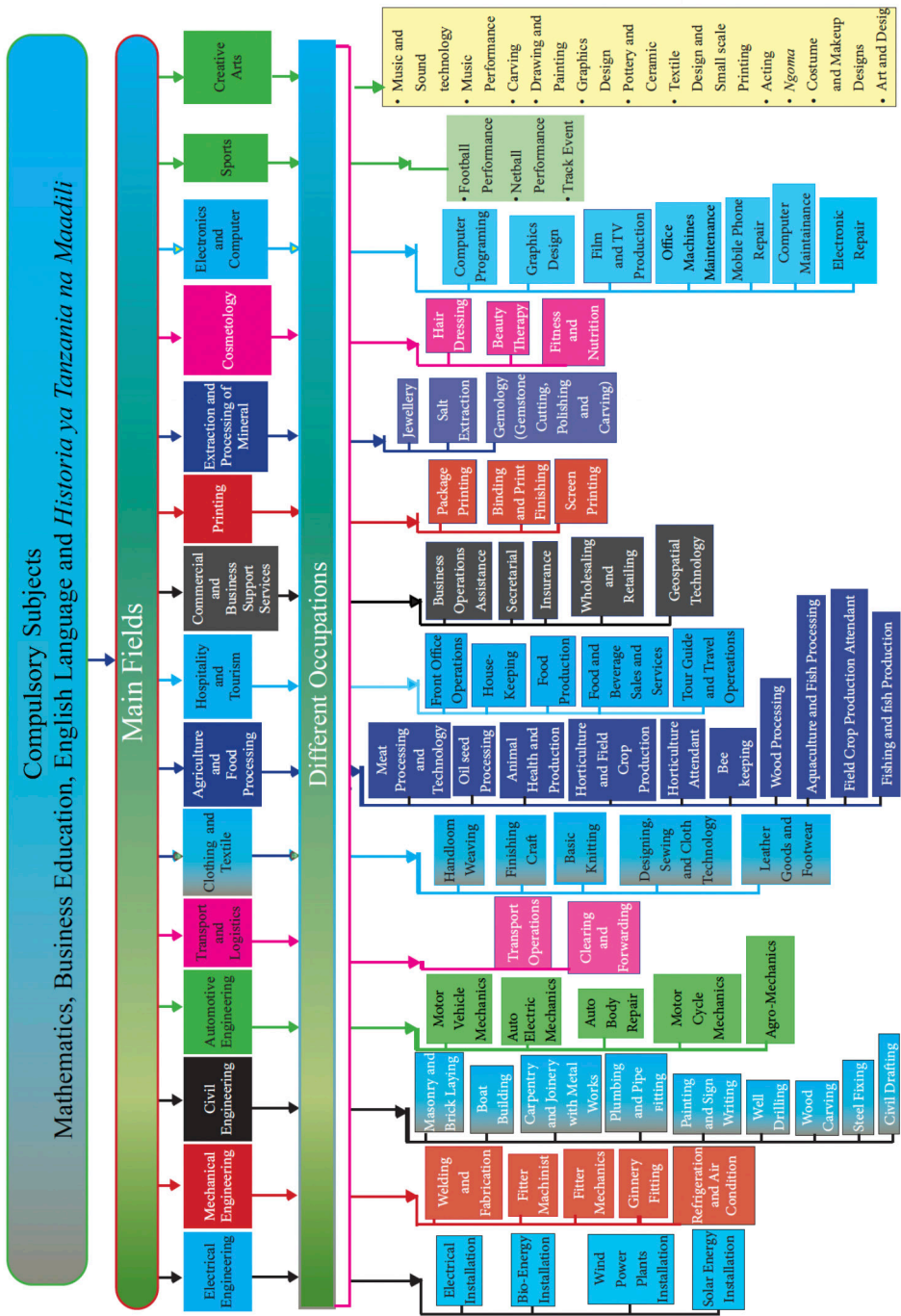
The main fields and occupations for Vocational Education are described in Table 2 and illustrated in Figure 2.

**Table 2: Main Fields and Occupations**

S/No.	Main Fields	Occupations
1.	Electrical Engineering	1.1 Electrical Installation
		1.2 Bio-energy Installation
		1.3 Wind Power Plants Installation
		1.4 Solar Power Installation
2.	Mechanical Engineering	2.1 Welding and Metal Fabrication
		2.2 Refrigeration and Air Conditioning
		2.3 Fitter Machinist
		2.4 Fitter Mechanics
		2.5 Ginnery Fitting
3.	Civil Engineering	3.1 Masonry and Brick-Laying
		3.2 Civil Drafting
		3.3 Boat Building
		3.4 Carpentry and Joinery With Metal Works
		3.5 Plumbing and Pipe Fitting
		3.6 Painting and Sign Writing
		3.7 Steel Fixing
		3.8 Well Drilling
		3.9 Wood Carving
4.	Automotive Engineering	4.1 Motor Vehicle Mechanics
		4.2 Auto-electric Mechanics
		4.3 Auto-body Repair
		4.4 Motor-cycle Mechanics
		4.5 Agro-mechanics
5.	Electronics and Computer	5.1 Computer Programming
		5.2 Graphics Design
		5.3 Electronics Repair
		5.4 Computer Maintenance

S/No.	Main Fields	Occupations
		5.5 Mobile Phone Repair
		5.6 Office Machines Maintenance
		5.7 Film and TV Production
6.	Transport and Logistics	6.1 Transport Operations
		6.2 Clearing and Forwarding
7.	Clothing and Textile	7.1 Handloom Weaving
		7.2 Finishing Craft
		7.3 Basic Knitting
		7.4 Designing, Sewing and Cloth Technology
		7.5 Leather Goods and Footwear
8.	Agriculture and Food Processing	8.1 Meat Processing and Technology
		8.2 Oil Seed Processing
		8.3 Animal Health and Production
		8.4 Horticultural Production
		8.5 Field Crop Production
		8.6 Wood Processing
		8.7 Bee Keeping
		8.8 Fishing and Fish Processing
		8.9 Aquaculture and Fish Processing
		8.10 Seaweed Farming
9.	Tourism	9.1 Front Office Operations
		9.2 Housekeeping
		9.3 Food Production
		9.4 Food Beverage Services and Sales
		9.5 Tour Guiding
10.	Commercial and Business Support Services	10.1 Business Operation Assistance
		10.2 Secretarial

S/No.	Main Fields	Occupation
		10.3 Insurance
		10.4 Wholesale and Retailing
		10.5 Geospatial Technology
11.	Printing	11.1 Packaging Printing
		11.2 Screen Printing
		11.3 Binding and Print Finishing
12.	Extraction and Processing of Minerals	12.1 Jewellery
		12.2 Salt Extraction
		12.3 Gemology (Gemstone Cutting, Polishing and Carving)
13.	Cosmetology	13.1 Hair Dressing
		13.2 Beauty Therapy
		13.3 Fitness and Nutrition
14.	Creative Arts	14.1 Acting
		14.2 Costume and Makeup Designs
		14.3 Ngoma Performance
		14.4 Music and Sound Technology
		14.5 Music Performance
		14.6 Carving
		14.7 Drawing and Painting
		14.8 Pottery and Ceramic
		14.9 Textile Design and Small-scale Printing
		14.10 Art and Design
15.	Sports	15.1 Football Performance
		15.2 Netball Performance
		15.3 Track Events



**Figure 2: Various Fields and Trades for Vocational Education**

**Table 3:** Subject Offered in Vocational Education Stream

S/No	Main Fields	Subjects offered by VETA Curriculum	Subjects offered by TIE Curriculum
1.	<b>Engineering Occupations</b> (Electrical Installation, Motor Vehicle Mechanics; Welding and Metal Fabrication; Painting and Sign Writing; Carpentry and Joinery with Metal Work; Masonry and Brick Laying; Plumbing and Pipe Fitting; and Solar Power Installation, (Bio-energy Installation, Wind Power Plants Installations, Refrigeration and Air Conditioning, Fitter Mechanics, Ginnery Fitting, Civil Drafting, Boat Building, Steel Fixing, Well Drilling, Wood Carving, Auto-electric Mechanics, Auto-body Repair, Motorcycle Mechanics and Agro-mechanics)	Occupation	Mathematics
		Technical Drawing	Business Studies
		Computer Application	English Language
		Life Skills	<i>Historia ya Tanzania na Maadili</i> Engineering Science
2.	<b>Tourism</b> (Food Production; Food Beverages Sales and Services; Housekeeping; Front Office Operations; Tour Guiding)	Occupation	Mathematics
		Tourism	Business Studies
		Life Skills	English Language
		Computer Application	<i>Historia ya Tanzania na Maadili</i> French Language / Chinese Language / Arabic Language *

S/No	Main Fields	Subjects offered by VETA Curriculum	Subjects offered by TIE Curriculum
3.	<b>Agriculture and Food Processing</b> (Field Crop Production; Horticultural Production, Animal Health and Production, Meat Processing and Technology, Wood Processing, Bee Keeping, Fishing and Fish Processing, Aquaculture and Fish Processing, Seaweed Farming, Oil Seed Processing)	Occupation	Mathematics
		Computer Application	Business Studies
		Life Skills	English Language
			<i>Historia ya Tanzania na Maadili</i>
Biology			
4.	<b>Creative Arts</b> (Music Performance, Music Sound and Technology, Acting, Ngoma Performance, Costume and Makeup Designs, Carving, Drawing and Painting, Pottery and Ceramic, Textile Design and Small-Scale Printing, Art and Design)	Occupation	Mathematics
		Computer Application	Business Studies
		Life Skills	English Language
			<i>Historia ya Tanzania na Maadili</i>
French Language / Chinese Language / Arabic Language*			
5.	<b>Sports</b> (Football Performance, Netball Performance, Track Events)	Occupation	Mathematics
		Computer Application	Business Studies
		Life Skills	English Language
			<i>Historia ya Tanzania na Maadili</i>
French Language / Chinese Language / Arabic Language*			

S/No	Main Fields	Subjects offered by VETA Curriculum	Subjects offered by TIE Curriculum
6.	<b>ICT</b> Graphic Design, Computer Programming, Film and TV Production, Office Machines Maintenance, Mobile Phone Repair and Computer Maintenance)	Occupation	Mathematics
		Computer Application	Business Studies
		Life Skills	English Language
			<i>Historia ya Tanzania na Maadili</i>
French Language / Chinese Language / Arabic Language*			
7.	<b>Clothing and Textile</b> (Leather Goods and Footwear, Design Sewing and Cloth Technology, Handloom and Weaving, Basic Knitting, Finishing Craft)	Occupation	Mathematics
		Computer Application	Business Studies
		Life skills	English Language
			<i>Historia ya Tanzania na Maadili</i>
French Language / Chinese Language/ Arabic Language*			

\*A student has to elect one subject

### 3.3 Main Competences and Specific Competences – General Education

The main and specific competences for each subject are presented in Table 4.

**Table 4:** *Subject, Main Competence and Specific Competence*

No.	Subject	Main Competence	Specific Competence
1.	Historia ya Tanzania na Maadili	1.1 Kulinda historia, urithi na maadili ya Taifa	1.1.1 Kuelezea chimbuko la jamii za Kitanzania na maadili yake 1.1.2 Kumudu maarifa na ujuzi wa maadili na urithi wa jamii za Kitanzania 1.1.3 Kutumia maarifa na ujuzi wa historia na urithi kubuni fursa mbalimbali zilizopo katika jamii za Kitanzania 1.1.4 Kubaini fursa mbalimbali za kujenga ushirikiano na kukuza uchumi wa kitaifa
		1.2 Kumudu historia ya jamii za Kitanzania na maadili yake kabla ya ukoloni	1.2.1 Kuchambua mifumo ya kijamii (elimu, afya, utamaduni, uchumi) iliyokuza na kuendeleza maadili ya jamii za Kitanzania kabla ya ukoloni 1.2.2 Kuchambua mifumo iliyokuza na kuendeleza uchumi na siasa katika jamii za Kitanzania kabla ya ukoloni 1.2.3 Kutathmini vichocheo vya mabadiliko ya sayansi na teknolojia katika jamii za Kitanzania kabla ya ukoloni
		1.3 Kumudu historia ya Tanzania na maadili wakati wa ukoloni, 1890-1960	1.3.1 Kutumia maarifa na ujuzi wa chimbuko na ukuaji wa mfumo wa ukoloni kuelewa uhusiano wa kihistoria kati ya Tanzania na mataifa yaliyoitawala

No.	Subject	Main Competence	Specific Competence
			<p>1.3.2 Kutathmini athari za mfumo wa ukoloni kwenye maadili ya jamiii za Kitanzania</p> <p>1.3.3 Kuchambua jitihada za jamii za Kitanzania kupinga ukoloni na maadili ya kikoloni</p>
		1.4 Kumudu historia ya ujenzi wa Taifa la Tanzania na maadili katika kipindi cha 1961-1966	<p>1.4.1 Kuchambua mifumo ya uchumi, siasa, utamaduni jamii na maadili iliyojengwa 1961-1966</p> <p>1.4.2 Kumudu historia ya Mapinduzi Matukufu ya Zanzibar</p> <p>1.4.3 Kumudu historia ya Muungano wa Tanganyika na Zanzibar</p>
		1.5 Kutathmini ujenzi wa Taifa na maadili baada ya Azimio la Arusha, 1967-1985	<p>1.5.1 Kuchambua chimbuko la Azimio la Arusha na matokeo yake kiuchumi, kisiasa, kiutamaduni na kimaadili</p> <p>1.5.2 Kueleza nafasi ya Tanzania katika kujenga uhusiano wa kikanda</p>
		1.6 Kutathmini historia ya Tanzania na maadili wakati wa uliberali, 1986 hadi sasa	<p>1.6.1 Kuchambua chimbuko la uliberali na utandawazi</p> <p>1.6.2 Kuishi maadili mema ya Kitanzania wakati wa uliberali na utandawazi</p>
		1.7 Kufanya utafiti wa historia na maadili ya Tanzania	<p>1.7.1 Kumudu misingi ya utafiti wa kihistoria</p> <p>1.7.2 Kutumia misingi ya utafiti wa kihistoria kufanya kazimradi</p>

No.	Subject	Main Competence	Specific Competence
		1.8 Kumudu muundo na kazi za Serikali ya Jamhuri ya Muungano wa Tanzania	1.8.1 Kueleza muundo na kazi za Serikali ya Jamhuri ya Muungano wa Tanzania na Serikali ya Mapinduzi Zanzibar 1.8.2 Kubaini muundo na kazi za serikali za mitaa
2.	History	2.1 Demonstrate mastery of African history before colonialism	2.1.1 Demonstrate an understanding of the concept of History and sources of historical information 2.1.2 Demonstrate an understanding of theories of the origin of human beings 2.1.3 Demonstrate an understanding of the economic, political, social and technological development in pre-colonial Africa 2.1.4 Demonstrate an understanding of interactions among African societies during the pre-colonial era 2.1.5 Demonstrate an understanding of the early contacts among the people of Africa, the Middle East, the Far East and Europe from the 1st Century to the 19th Century
		2.2 Demonstrate mastery of the relationship between capitalism and Africa	2.2.1 Demonstrate an understanding of the development of capitalism and its impact on Africa

No.	Subject	Main Competence	Specific Competence
			<p>2.2.2 Demonstrate an understanding of colonial systems in Africa</p> <p>2.2.3 Demonstrate an understanding of the history of nationalist movements in Africa</p>
		<p>2.3 Demonstrate mastery of the history of nation-building in post-colonial Africa</p>	<p>2.3.1 Demonstrate mastery of the history of nation-building in post-colonial Africa</p> <p>2.3.2 Demonstrate an understanding of the successes and challenges of nation-building in post-colonial Africa</p>
		<p>2.4 Demonstrate mastery of the history of Africa's participation in regional and international affairs</p>	<p>2.4.1 Demonstrate an understanding of the formation of African regional integration</p> <p>2.4.2 Demonstrate an understanding of the history of Africa's participation in the United Nations Organisation</p>
3.	Geography	<p>3.1 Demonstrate mastery of the structure of the Earth</p>	<p>3.1.1 Demonstrate an understanding of the origin and the structure of the Earth and earth systems</p> <p>3.1.2 Demonstrate an understanding of the major features of the Earth surface</p> <p>3.1.3 Demonstrate an understanding of the relationship between relief, climate and natural vegetation</p>

No.	Subject	Main Competence	Specific Competence
		3.2 Demonstrate mastery of basic skills and techniques Geography	3.2.1 Demonstrate an understanding of the basic techniques of map and photograph interpretation  3.2.2 Demonstrate an understanding of the basic techniques in land surveying
		3.3 Demonstrate mastery of human geography	3.3.1 Demonstrate an understanding of the relationship between geography, human settlement, economic activities and environmental health  3.3.2 Carry out a project in Geography
4.	English Language	4.1 Manage information search from different sources for lifelong learning	4.1.1 Use ICT tools to search for information from different sources  4.1.2 Organize information obtained from different sources
		4.2 Demonstrate mastery of English language skills	4.2.1 Develop listening skills  4.2.2 Produce short and coherent oral messages with intelligible pronunciation and fluency  4.2.3 Develop vocabulary from conversations and written texts  4.2.4 Use appropriate grammar and vocabulary in oral and in written language tasks

No.	Subject	Main Competence	Specific Competence
		4.3 Comprehend oral and written information	4.3.1 Read texts for comprehension 4.3.2 Comprehend oral messages with increasing difficulty 4.3.3 Respond appropriately in a variety of oral and written communication contexts 4.3.4 Construct meaning from a variety of text
		4.4 Communicate effectively in different contexts	4.4.1 Use appropriate grammar and vocabulary for oral communication in a variety of contexts 4.4.2 Create a variety of texts for different communicative purposes using the appropriate tone and register 4.4.3 Conduct a socio-cultural analysis of functional texts
		4.5 Provide basic English language services to the community	4.5.1 Apply principles of editing and proofreading in a variety of texts 4.5.2 Apply principles of interpretation to provide simple authentic interpretations 4.5.3 Apply principles of translation to produce simple authentic translation 4.5.4 Manage short translation and editing projects using Computer- Assisted Tools

No.	Subject	Main Competence	Specific Competence
		4.6 Appreciate and create literary works	4.6.1 Appreciate the aesthetics and value of literature 4.6.2 Evaluate the context in which literary texts are written, read and understood 4.6.3 Analyse genres of literature and appreciate their conventions 4.6.4 Create simple literary works
5.	Literature in English	5.1 Develop awareness of and empathy with national and global literary works	5.1.1 Demonstrate empathy for other people's experiences nationally and globally 5.1.2 Appreciate multiculturalism and develop self-consciousness 5.1.3 Reflect values, perspectives and identities, and the impact of beliefs and actions on society
		5.2 Appreciate different implications and layers of meaning in literary works	5.2.1 Appreciate the use of literary devices in the works of art 5.2.2 Apply critical thinking when reading, discussing and writing about literary texts 5.2.3 Justify interpretations based on evidence and logic
		5.3 Compose literary works	5.3.1 Synthesise literary characteristics, themes, and/or approaches in several literary texts 5.3.2 Recognise ambiguity and uncertainty as necessary in creating literary works

No.	Subject	Main Competence	Specific Competence
			5.3.3 Create imaginative and original literary works
6.	Kiswahili	6.1 Kumudu misingi ya Kiswahili	6.1.1 Kutambua Kiswahili kama kielelezo cha utaiifa na utambulisho wa Mtanzania 6.1.2 Kukuza uelewa wa sarufi ya Kiswahili
		6.2 Kumudu lugha ya mazungumzo na ya maandishi	6.2.1 Kusikiliza na kuelewa mazungumzo 6.2.2 Kusoma matini kwa ufasaha na ufahamu
		6.3 Kuwasiliana katika miktadha mbalimbali	6.3.1 Kutumia kamusi katika miktadha mbalimbali 6.3.2 Kuwasiliana kwa ufasaha kwa njia ya mazungumzo 6.3.3 Kuwasiliana kwa njia ya maandishi katika miktadha mbalimbali
		6.4 Kuthamini kazi za fasihi ya Kiswahili	6.4.1 Kukuza uelewa wa misingi ya fasihi ya Kiswahili 6.4.2 Kuhakiki kazi za fasihi ya Kiswahili 6.4.3 Kubuni kazi za fasihi ya Kiswahili
		6.5 Kutoa huduma ya lugha ya Kiswahili katika jamii	6.5.1 Kufanya tafsiri sahili katika lugha ya Kiswahili 6.5.2 Kuhariri matini mbalimbali za Kiswahili 6.5.3 Kufanya ukalimani sahili kwa lugha ya Kiswahili

الرقم	المادة	الكفاءات العامة	الكفاءات الخاصة
7.	اللغة العربية	7.1 إظهار فهم المهارات الأساسية للغة العربية	7.1.1 تطوير مهارات الاستماع اللغوية العربية
			7.1.2 اكتساب المفردات من المحادثة والكتابة
			7.1.3 توصيل المعلومات الفصيحة القصيرة المنطوقة بكلمات فصيحة
			7.1.4 استخدام المفردات والقواعد الصحيحة عن طريق التحدث والكتابة
		7.2 إظهار فهم المعلومات المعروضة شفويا وكتابيا	7.2.1 تطوير كفاءة الاستماع وفهم المعلومات المعروضة شفويا
			7.2.2 تطوير كفاءة القراءة وفهم للنصوص المختلفة
			7.2.3 إظهار الاستجابة المناسبة في السياقات التواصلية المختلفة
			7.2.4 تطوير كفاءة القراءة وفهم للنصوص المختلفة بشكل صحيح
		7.3 التواصل بفعالية في سياقات مختلفة	7.3.1 إنشاء النصوص باللغة الفصيحة في سياقات مختلفة
		7.4 التفسير والتحرير والترجمة للمعلومات السهلة	7.4.1 تقديم التفسير السهل الصحيح
			7.4.2 القدرة على تحرير النصوص السهلة
			7.4.3 إجراء الترجمة السهلة بصورة صحيحة

No.	Subject	Main competences	Specific competences
8.	Chinese	<p>8.1 掌握基本汉语技能 Master basic Chinese language skills</p>	<p>8.1.1 提升汉语声母、韵母和声调的音素意识并掌握发音 Develop awareness of phonemes, initials, finals, tone, and Chinese Characters.</p> <p>8.1.2 正确掌握各种语境下的汉语词汇 Master the correct Chinese vocabulary in various contexts</p> <p>8.1.3 在会话和写作中发展使用适当的语法和词汇的能力 Develop the use of appropriate grammar and vocabulary in conversation and writing</p>
		<p>8.2 展现出对口头和书面信息的理解 Demonstrate understanding of information in conversation and writing</p>	<p>8.2.1 提高听懂表达的能力 Develop the ability to listen and understand information</p> <p>8.2.2 培养阅读和理解各种文本的能力 Develop the ability to read and understand various texts.</p> <p>8.2.3 在不同的交流环境中做出正确回应 Show the right response in various communicative contexts</p> <p>8.2.4 提高正确阅读各种文本的能力 Develop the ability to read correctly various texts</p>

No.	Subject	Main competences	Specific competences
		8.3 在不同的语境下进行有效交流 C o m m u n i c a t e effectively in a variety of contexts	8.3.1 提高对口语和书面语言特征的理解 Develop an understanding of the characteristics of spoken and written language  8.3.2 在各种语境中，提高使用口语交流的能力 Develop the ability to communicate orally  8.3.3 在各种的语境中，提高使用书面语式正确沟通的能力 Develop the ability to communicate accurately in writing in various contexts
		8.4 笔译、口译简单信息 Translate and interpret simple information	8.4.1 进行简单准确的笔译 Provide simple and accurate translation.  8.4.2 进行简单准确的口译 Provide simple and correct interpretation
9.	French	9.1 Maîtriser les composantes langagières de base du français	9.1.1 Développer la conscience phonémique et la prononciation française  9.1.2 Maîtriser le vocabulaire approprié du français  9.1.2 Élargir l'usage de la grammaire et du vocabulaire approprié à travers l'écoute et la lecture
		9.2 Comprendre des informations orales et écrites	9.2.1 Développer la compréhension des informations présentées oralement

No.	Subject	Main competences	Specific competences
			9.2.2 Développer la compréhension des informations présentées à l'écrit 9.2.3 Réagir de manière appropriée à des divers contextes de communication 9.2.4 Lire correctement la variété des textes
		9.3 Communiquer efficacement dans divers contextes	9.3.1 Maîtriser les caractéristiques de la langue parlée et écrite 9.3.2 Communiquer à l'oral de manière appropriée 9.3.3 Communiquer à l'écrit de manière appropriée
		9.4 Traduire, éditer et interpréter des informations simples	9.4.1 Traduire des textes simples 9.4.2 Interpréter 9.4.3 Éditer des textes simples
10.	Sport Studies	10.1 Demonstrate mastery of the concepts, safety and ethical conduct in sports	10.1.1 Demonstrate an understanding of the importance of sports 10.1.2 Demonstrate an understanding of ethical conduct in sports
		10.2 Demonstrate mastery of the role of physical and mental fitness in sports	10.2.1 Demonstrate an understanding of the principles of building physical and mental fitness in sports
		10.3 Play various sports	10.3.1 Perform physical exercises 10.3.2 Develop skills and techniques in sports

No.	Subject	Main Competence	Specific Competence
		10.4 Demonstrate mastery of the fundamentals of health and safety in sports	10.4.1 Demonstrate an understanding of risky behaviour in sports 10.4.2 Demonstrate an understanding of the relationship between nutrition and health in sports
11.	Biology	11.1 Demonstrate mastery of the concepts, principles and processes of Biology	14.4.1 Describe the physiological, anatomical and ecological processes of living organisms
		11.2 Communicating using scientific biological terminologies	11.2.1 Demonstrate mastery of scientific biological terminologies
		11.3 Conduct biological investigations	11.3.1 Demonstrate mastery of basic skills for conducting biological investigations 11.3.2 Prepare and present results of biological investigations 11.3.3 Carry out a biological project work using biological principles
12.	Chemistry	12.1 Demonstrate mastery of basic concepts, theories and principles in Chemistry	12.1.1 Demonstrate mastery of concepts, theories and principles in Chemistry 12.1.2 Demonstrate an understanding of the physical and chemical properties of elements on the basis of their arrangement in the periodic table
		12.2 Demonstrate mastery of basic terminologies in Chemistry	12.2.1 Use the International Union of Pure and Applied Chemistry nomenclature to name chemical compounds

No.	Subject	Main Competence	Specific Competence
			12.2.2 Use chemical symbols, formulas and equations to represent chemical reaction
		12.3 Conduct experiments in Chemistry	12.3.1 Conduct experiments in Chemistry
		12.4 Demonstrate mastery of basic principles of extraction of metals	12.4.1 Demonstrate mastery of principles of extraction of metals
		12.5 Conduct a project in Chemistry	12.5.1 Conduct a project in Chemistry
13.	Physics	13.1 Apply knowledge of Physics in various contexts	13.1.1 Demonstrate mastery of basic concepts, theories and principles of Physics 13.1.2 Demonstrate mastery of basic terminologies, measurements and symbols in Physics 13.1.3 Use mathematics to explain physical principles and phenomena
		13.2 Conduct experiments in Physics	13.2.1 Demonstrate mastery of basic experimental skills in Physics 13.2.2 Demonstrate mastery of data analysis, presentation and report writing in Physics
		13.3 Evaluate and use information in Physics	13.3.1 Collect, describe and relate physical data 13.3.2 Carry out a project in Physics

No.	Subject	Main Competence	Specific Competence
14.	Agriculture	14.1 Demonstrate mastery of the principles of agriculture	14.1.1 Demonstrate an understanding of the principles of agriculture
		14.2 Use basic agricultural skills	14.2.1 Apply basic principles of husbandry in crop production 14.2.2 Apply basic principles of husbandry in animal production 14.2.3 Apply basic principles of husbandry in aquaculture
		14.3 Conduct a project in Agriculture	14.3.1 Carry out a project in Agriculture
15.	Mathematics	15.1 Demonstrate mastery of mathematical language	15.1.1 Use numerical skills in different contexts 15.1.2 Use ratios, profit and loss in daily life Use rates and variations in different contexts
		15.2 Demonstrate mastery of basic concepts in geometry and algebra	15.2.1 Use geometry, approximations, relations, and functions in various contexts 15.2.2 Use algebra and matrices in problem solving 15.2.3 Use sets, sequences and series in problem solving
		15.3 Demonstrate mastery of basic concepts in coordinate geometry, trigonometry, circles, vectors, probability and statistics	15.3.1 Use basic coordinate geometry, trigonometry, and vectors skills in daily life 15.3.2 Use probability in problem solving 15.3.3 Use statistics in problem solving

No.	Subject	Main Competence	Specific Competence
16.	Additional Mathematics	16.1 Use advanced mathematical knowledge and skills in daily life	16.1.1 Use some advanced skills in Coordinate Geometry, trigonometry and vectors in daily life 16.1.2 Apply statistical skills in the fields of business and economics 16.1.3 Demonstrate mastery of logic in decision making 16.1.4 Apply the basic skills of probability in daily life
		16.2 Demonstrate mastery of some advanced concepts in algebra and calculus in problem solving	16.2.1 Use Algebra and Calculus to solve problems in different contexts 16.2.2 Apply set theory skills in decision making
17.	Computer Science	17.1 Demonstrate mastery of the basic Concepts of Computer Science	17.1.1 Demonstrate an understanding the field of Computer Science and its related fields 17.1.2 Demonstrate an understanding of computer systems 17.1.3 Demonstrate mastery of maintenance and troubleshooting of computer systems 17.1.4 Demonstrate mastery of basics of system administration

No.	Subject	Main Competence	Specific Competence
			17.1.5 Demonstrate mastery of the Internet, and basics of cyber security
		17.2 Demonstrate mastery of the basic principles of Computer Science	<p>17.2.1 Demonstrate mastery of the basic principles of problem solving (concept of problem solving, steps of problem solving, concept of algorithms)</p> <p>17.2.2 Demonstrate an understanding of basic principles of computer programming (using an appropriate structured programming language such as C, python, etc)</p> <p>17.2.3 Demonstrate an understanding of the basic principles of computer architecture.</p> <p>17.2.4 Demonstrate an understanding of the basics of computer networks</p> <p>17.2.4 Demonstrate mastery of basic principles of web development (HTML, CSS, and JavaScript)</p> <p>17.2.5 Demonstrate mastery of basic principles of mobile App</p>
		17.3 Demonstrate mastery of the basic principles of data management	17.3.1 Demonstrate the mastery of basic principles of databases and database management systems.

No.	Subject	Main Competence	Specific Competence
			17.3.2 Demonstrate the mastery of the basic principles of data analysis (data collection, pre-processing, processing, visualization, interpretation)
18.	Bookkeeping	18.1 Demonstrate mastery of the principles of Bookkeeping	18.1.1 Demonstrate an understanding of the basic principles and theories of Bookkeeping 18.1.2 Record business transactions using source documents 18.1.3 Prepare a Trial balance
		18.2 Prepare basic financial statements	18.2.1 Prepare basic profit and loss statements 18.2.2 Prepare basic business financial position statements 18.2.3 Prepare basic audit reports
		18.3 Prepare financial statements for non-commercial institutions	18.3.1 Demonstrate an understanding of commercial and non-commercial organisations 18.3.2 Prepare financial statements of non-commercial organisations
		18.4 Demonstrate mastery of financial assets control	18.4.1 Prepare bank reconciliation statements 18.4.2 Prepare a financial budget 18.4.3 Adjust records in financial statements
		18.5 Demonstrate mastery of the use of ICT in Bookkeeping	18.5.1 Use basic accounting packages

No.	Subject	Main Competence	Specific Competence
19.	Business Studies	19.1 Demonstrate mastery of business knowledge	19.1.1 Demonstrate mastery of the concepts, theories and principles of Business Studies
		19.2 Solve social challenges using business skills	19.2.1 Demonstrate mastery of the basic skills of operating a small-scale business 19.2.2 Demonstrate mastery of the basic skills of trading locally and internationally
		19.3 Apply business knowledge in various contexts	19.3.1 Apply business theories into practice 19.3.2 Demonstrate mastery of basic business ethics
20.	Textiles and Garment Construction	20.1 Demonstrate mastery of basic concepts and principles of garment construction	20.1.1 Demonstrate an understanding of basic principles of garment construction 20.1.2 Caring for clothes and house hold articles
		20.2 Demonstrate mastery of garment construction	20.2.1 Demonstrate an understanding of the concept of patterns in garment construction 20.2.2 Select the right fabric for different garments (design, style, fashion, texture, colour and line in garment construction) 20.2.3 Sew simple styles of various garments (lay and cut out, apply procedures of garment construction)

No.	Subject	Main Competence	Specific Competence
		20.3 Demonstrate mastery of professionalism and ethics in garment construction	20.3.1 Demonstrate an understanding in operating a textile related business 20.3.2 Demonstrate an understanding of professionalism and ethics in tailoring
21.	Fine Art	21.1 Demonstrate mastery of concepts, theories and principles of Fine Art	24.4.1 Demonstrate an understanding of the concepts, theories and the principles of Fine Art 24.4.2 Demonstrate an understanding of Traditional forms of Fine Art in Tanzania
		21.2 Create simple works of Fine Art	21.2.1 Make decorations 21.2.2 Use traditional and modern techniques to create works of art 21.2.3 Create realistic art content
		21.3 Demonstrate mastery of the principles of occupational health and environmental care in Fine Art	21.3.1 Dispose waste from Fine Art activities 21.3.2 Demonstrate an understanding of ethical conduct in Fine Art
		21.4 Use ICT to market works of Fine Art	21.4.1 Use ICT to market works of Fine Art
22.	Music	22.1 Demonstrate mastery of concepts, theories and principles of music	22.1.1 Demonstrate an understanding of the concepts, theories, and principles of music 22.1.2 Demonstrate an understanding of the principles of reading and writing music

No.	Subject	Main Competence	Specific Competence
		22.2 Create and perform music	22.2.1 Sing local and foreign songs 22.2.2 Play local and foreign musical instruments 22.2.3 Demonstrate an understanding of ethical conduct in the music industry
		22.3 Demonstrate mastery of the use of ICT in music	22.3.1 Use ICT programmes to write music 22.3.2 Use ICT in music production 22.3.3 Use ICT to store works of music 22.3.4 Use ICT to market works of music
		22.4 Carry out a project in Music	22.4.1 Conduct a research project on business opportunities in music
23.	Theatre Arts	23.1 Demonstrate mastery of concepts, theories and principles of theatre arts	23.1.1 Demonstrate an understanding of the concept and history of theatre arts 23.1.2 Demonstrate an understanding of the theories and principles of theatre arts 23.1.3 Demonstrate an understanding of the contribution of theatre arts to social development
		23.2 Perform theatre arts	23.2.1 Perform theatre arts for different audiences based on audience types 23.2.2 Use ICT to produce simple film, television and radio drama

No.	Subject	Main Competence	Specific Competence
			<p>23.2.3 Organise theatre for social change</p> <p>23.2.4 Observe ethical conduct in theatre arts</p>
		23.3 Demonstrate mastery of the use of creative language in theatre arts	<p>23.3.1 Use creative language to prepare theatrical works</p> <p>23.3.2 Interpret theatrical works to suit different audiences</p>
		23.4 Demonstrate mastery of the application of business principles in theatre arts	<p>23.4.1 Develop business ideas and opportunities in theatre arts</p> <p>23.4.2 Analyse the cost of producing and selling theatrical works</p> <p>23.4.3 Design strategies for marketing theatrical works</p>
24.	Food and Human Nutrition	24.1 Demonstrate mastery of the basic principles of Food and Nutrition	<p>24.1.1 Describe the basic principles of Food and Nutrition</p> <p>24.1.2 Describe the nutrient content of different foods</p> <p>24.1.3 Demonstrate mastery of the principles of cookery</p>
		24.2 Demonstrate an understanding of the relationship between health and nutrition	<p>24.2.1 Describe the relationship between health and nutrition</p> <p>24.2.2 Use of food and nutrition principles to improve health</p>
		24.3 Demonstrate mastery of cookery	<p>24.3.1 Prepare a balanced meal based on different foods available in the community</p> <p>24.3.2 Prepare a balanced meal for people with different nutritional needs</p> <p>24.3.3 Demonstrate mastery of cooking for business purposes</p>

No.	Subject	Main Competence	Specific Competence
		24.4 Demonstrate mastery of using technology to preserve food	24.4.1 Design and use simple technology to preserve different types of food
		24.5 Carry out a project in food and Nutrition	24.5.1 Conduct a project in food and Nutrition
25.	Bible Knowledge	25.1 Demonstrate an understanding of Creation and God's commandments	<p>25.1.1 Use the Book of Genesis to learn about creation, responsibility and taking care of life</p> <p>25.1.2 Demonstrate mastery of the Holy Scripture through the Book of Genesis</p> <p>25.1.3 Use the Book of Exodus to understand God's love and compassion</p> <p>25.1.4 Demonstrate an appreciation of God's commandments as outlined in the Book of Exodus</p> <p>25.1.5 Demonstrate an appreciation of the importance of statistics based on the Book of Numbers</p>
		25.2 Demonstrate an understanding of faith by living a holy life	<p>25.2.1 Demonstrate mastery of the Holy Scripture through the Book of Joshua</p> <p>25.2.2 Use the Book of Joshua to appreciate the importance of courage, bravery, humility, perseverance and patriotism</p>

No.	Subject	Main Competence	Specific Competence
		25.3 Demonstrate an understanding of devotion to God as revealed in the Bible	25.3.1 Demonstrate mastery of the Holy Scripture in the Gospel according to Luke 25.3.2 Use the Gospel according to Luke to appreciate the importance of family life 25.3.3 Demonstrate mastery of the Holy Scripture in the Book of Acts of the Apostles 25.3.4 Demonstrate an appreciation of devotion to spreading the Gospel 25.3.5 Use the Book of Acts of the Apostles to appreciate the importance of justice, peace and equality
26.	Elimu ya Dini ya Kiislamu	26.1 Kuonesha uelewa wa aina za Tawhidi na Daraja za dini (Maratibu Diin) 26.2 Kutumia Qur'an na Sunnah katika maisha ya kila siku	26.1.1 Kuchambua aina za Tawhid na Daraja za dini katika maisha ya Muislamu 26.1.2 Kufafanua misingi ya Dini ya Kiislamu 26.1.3 Kutumia mwenendo/Sira za Mtume Muhammad (S.A.W) 26.2.1 Kusoma kwa hifdhi na ahkam Sura thelathini (30) kutoka mwisho wa Qur'an Tukufu 26.2.2 Kuchambua mafunzo ya Aya zilizochaguliwa 26.2.3 Kuchanganua mafunzo ya Hadithi zilizochaguliwa

No.	Subject	Main Competence	Specific Competence
		26.3 Kufanya ibada za Faradhi na Sunnah kwa usahihi	26.3.1 Kuchambua utekelezaji wa nguzo tano za Uislamu na umuhimu wake 26.3.2 Kuchanganua miamala halali na haramu katika Uislamu
		26.4 Kutekeleza matendo mema, kufanya kazi za kiuchumi na kutumia mali kwa usahihi	26.4.1 Kuchambua maadili na tabia kutokana na kazi za uchumi na biashara za Mtume Muhammad (S.A.W) 26.4.2 Kuchambua maadili na tabia za Mtume Muhammad (S.A.W) katika miamala ya ajira 26.4.3 Kuchambua maadili na tabia za Mtume Muhammad (S.A.W) katika kazi za uongozi/ukhalifa
		26.5 Kuishi kwa kumuiga Mtume Muhammad (S.A.W) na Makhalifa waongofu katika maisha ya kila siku	26.5.1 Kuchambua imani, mila na amali za washirikina kabla, wakati na baada ya Mtume Muhammad (S.A.W) 26.5.2 Kuchambua mafunzo ya Sira ya Mtume Muhammad (S.A.W) na Makhalifa wake
		26.6 Kuamrisha mema na kukataza maovu katika jamii	26.6.1 Kutumia Aya na Hadithi za Mtume Muhammad (S.A.W) zilizoteuliwa

No.	Subject	Main Competence	Specific Competence
27.	Fasihi ya Kiswahili	27.1 Kuthamini kazi za fasihi ya Kiswahili	27.1.1 Kuonesha uelewa wa kazi za fasihi ya Kiswahili ya kitaifa 27.1.2 Kuhakiki kazi mbalimbali za fasihi ya Kiswahili
		27.2 Kujenga ujumi kutokana na kazi za fasihi	27.2.1 Kujenga ujumi na falsafa ya Kiafrika katika kazi za fasihi 27.2.2 Kutumia kazi za fasihi katika kujenga hoja zenye mantiki
		27.3 Kubuni kazi za fasihi	27.3.1 Kutathmini mbinu za kisanaa za utunzi wa kazi za kifasihi 27.3.2 Kutunga kazi sahili za kifasihi 27.3.3 Kutambua fursa zinazotokana na fasihi ya Kiswahili

### 3.4: Main Competences and Specific competences - Vocational Education

The main and specific competences for each subject are presented in Table 5.

**Table 5:** *Main Fields, Occupation, Main and Specific Competences*

Main Fields	Occupations	Main Competence	Specific competence
Electrical Engineering	1.0 Electrical Installation	1.1 Maintaining health, safety, and environment at the workplace	1.1.1 Handling workshop safety 1.1.2 Handling workshop tools 1.1.3 Handling workshop equipment 1.1.4 Carrying out health and safety investigation 1.1.5 Handling Fire Accidents 1.1.6 Performing First Aid 1.1.7 Maintaining buildings 1.1.8 Maintaining safe working environment
		1.2 Performing basic workshop activities	1.2.1 Performing machine operations 1.2.2 Performing forming operations 1.2.3 Performing surface finishing operations 1.2.4 Performing bearing removal and mounting
		1.3 Building simple DC circuits	1.3.1 Constructing resistive circuits 1.3.2 Constructing capacitive circuits 1.3.3 Constructing Inductive Circuits 1.3.4 Constructing RLC circuits 1.3.5 Measuring electrical quantities 1.3.6 Determining characteristics of active electronic components 1.3.7 Constructing Rectifier Circuits

Main Fields	Occupations	Main Competence	Specific competence
		1.4 Performing preventive maintenance of tools equipment and machines	1.4.1 Performing preventive maintenance of electrical tools 1.4.2 Performing maintenance of electrical equipment 1.4.3 Performing preventive maintenance of simple electric machines
		1.5 Performing basic electrical installation	1.5.1 Performing cold electrical joint 1.5.2 Performing soldering 1.5.3 Installing Lighting Circuits 1.5.4 Installing power circuits 1.5.5 Installing alarm and signal circuits 1.5.6 Installing basic protective devices 1.5.7 Carrying out system earthing 1.5.8 Carrying out electrical tests
		1.6 Project	
		1.7 Building simple AC circuits	1.7.1 Constructing simple heating coils 1.7.2 Constructing simple magnetic circuits 1.7.3 Constructing Simple Filter Circuits
		1.8 Installing cables and cable enclosures	1.8.1 Installing cables 1.8.2 Erecting conduits 1.8.3 Erecting trunking and cable trays 1.8.4 Constructing ducts and trenches
		1.9 Installing switch gears and protective devices	1.9.1 Installing three-phase switch gears 1.9.2 Installing three-phase protective devices 1.9.3 Performing metering and tariffing. 1.9.4 Installing fire detection and alarm system

Main Fields	Occupations	Main Competence	Specific competence
		1.10 Installing Solar Electrical Systems	1.10.1 Installing Solar Electric System 1.10.2 Servicing Solar Electric System
		1.11 Performing maintenance of electrical systems	1.11.1 Carrying out preventive maintenance 1.11.2 Carrying out corrective maintenance 1.11.3 Carrying out condition-based maintenance 1.11.4 Carrying out troubleshooting
		1.12 Project	
		1.13 Performing illumination tasks	1.13.1 Performing light level assessment 1.13.2 Installing special lighting system.
		1.14 Installing electrical machine	1.14.1 Installing AC machines 1.14.2 Installing control system of AC machines 1.14.3 Installing DC machines 1.14.4 Installing control system of DC machines. 1.14.5 Installing electronic soft starter
		1.15 Servicing electric machines	1.15.1 Performing rewinding of electric motors 1.15.2 Performing rewinding of transformers
		1.16 Installing Programmable Logic Controllers (PLCs)	1.16.1 Installing PLCs components/accessories 1.16.2 Performing PLCs programming 1.16.3 Installing PLCs networking and communication system 1.16.4 Installing lift and escalator systems

Main Fields	Occupations	Main Competence	Specific competence
		1.17 Managing resources	1.17.1 Establishing tools, equipment, and material profile 1.17.2 Planning for Maintenance 1.17.3 Estimating materials and labour costs. 1.17.4 15.4 Preparing a small-scale tender document 1.17.5 Training subordinates on the job 1.17.6 Supervising subordinates
		1.18 Managing Safe Work Environment	1.18.1 Managing hazards 1.18.2 Carrying out risk assessment 1.18.3 Managing environment
		1.19 Managing preventive maintenance works	1.19.1 Planning preventive maintenance 1.19.2 Supervising preventive maintenance.
	2.0 Solar Power Installation	2.1 Maintaining health, safety and environment at workplace	2.1.1 Handling workshop safety 2.1.2 Handling workshop tools 2.1.3 Handling workshop equipment 2.1.4 Carrying out health and safety investigations 2.1.5 Handling fire accidents 2.1.6 Performing first aid 2.1.7 Maintaining buildings 2.1.8 Maintaining safe working environment
		2.2 Performing preventive maintenance of tools, equipment and machines.	2.2.1 Performing preventive maintenance of electrical tools 2.2.2 Performing preventive maintenance of basic electrical equipment 2.2.3 Performing preventive maintenance of simple electric machines

Main Fields	Occupations	Main Competence	Specific competence
		2.3 Performing bench works	2.3.1 Performing machining operations 2.3.2 Performing forming operation 2.3.3 Performing surface finishing operation 2.3.4 Performing bearing removal and mounting 2.3.5 Perform threading
		2.4 Selecting solar PV system components	2.4.1 Specifying solar PV system major components 2.4.2 Performing solar PV basic measurement
		2.5 Performing electrical joints	2.5.1 Performing Cold Electrical Joints 2.5.2 Performing soldering
		2.6 Building simple dc circuits	2.6.1 Constructing resistive circuits 2.6.2 Construct capacitive circuits 2.6.3 Constructing inductive circuits 2.6.4 Constructing RLC circuit 2.6.5 Measuring electric quantitie 2.6.6 Determining characteristics of active electronic components 2.6.7 Constructing rectifier circuits
		2.7 Performing basic electrical installation	2.7.1 Installing lighting circuits 2.7.2 Installing power circuits 2.7.3 Installing alarm and signal circuits 2.7.4 Installing basic protective device 2.7.5 Carrying out earthing systems 2.7.6 Carrying out electrical tests

Main Fields	Occupations	Main Competence	Specific competence
		2.8 Installing cables and cable enclosures	2.8.1 Installing cables 2.8.2 Erecting conduits 2.8.3 Erecting trunking and cable trays 2.8.4 Constructing ducts and trenches
		2.9 Installing switch gears and protective device	2.9.1 Installing switch gears 2.9.2 Installing protective devices 2.9.3 Installing fire detection and alarm system
		2.10 Installing solar PV systems	2.10.1 Handling solar PV array 2.10.2 Installing solar electric system components 2.10.3 Designing PV solar power system 2.10.4 Constructing solar PV mounting structure
		2.11 Installing solar thermal systems	2.11.1 Installing water solar heater 2.11.2 Installing solar water pump
		2.12 Constructing solar PV power mini grid	2.12.1 Constructing electrical distribution lines 2.12.2 Installing distribution transformer 2.12.3 Installing electrical service
		2.13 Performing maintenance of electrical systems	2.13.1 Carrying out preventive maintenance 2.13.2 Carrying out corrective maintenance
		2.14 Installing electrical machines	2.14.1 Installing AC machines 2.14.2 Installing control of single phase AC motors 2.14.3 Installing control of three phase AC motors 2.14.4 Installing DC machines 2.14.5 Installing control of DC machines

Main Fields	Occupations	Main Competence	Specific competence
			2.14.6 Installing electronic soft starter 2.14.7 Installing variable frequency drive
		2.15 Installing electronic control and monitoring systems	2.15.1 Installing PLC components 2.15.2 Performing PLC programming 2.15.3 Installing PLC networking and communication system
		2.16 Installing hybrid systems	2.16.1 Installing inverter chargers 2.16.2 Installing change over switch 2.16.3 Installing hybrid solar PV system
		2.16 Fabricating solar thermal systems	2.16.1 Developing solar heater 2.16.2 Developing solar parabolic concentrator 2.16.3 Developing solar dryers
		2.17 Maintaining and Managing solar PV systems	2.17.1 Performing routine maintenance 2.17.2 Performing system corrective maintenance
		2.18 Managing resources	2.18.1 Establishing tools, equipment and materials profile. 2.18.2 Estimating materials and labour costs 2.18.3 Preparing a small scale tender document 2.18.4 Training subordinates 2.18.5 Supervising subordinates
		2.19 Managing safe work environment	2.19.1 Managing hazards 2.19.2 Carrying out risk assessment 2.19.3 Managing environment

Main Fields	Occupations	Main Competence	Specific competence
	3.0 Welding and Metal Fabrication	3.1 Maintaining Safety of Workshop and Surroundings	3.1.1 Maintaining workshop safety 3.1.2 Handling accidents and incidents 3.1.3 Handling fire accidents 3.1.4 Performing First Aid 3.1.5 Maintaining environmental issues
		3.2 Preventive Maintenance of Tools, Equipment, and Machines	3.2.1 Maintaining tools 3.2.2 Maintaining equipment 3.2.3 Maintaining workshop machines
		3.3 Performing Bench Work	3.3.1 Performing measuring 3.3.2 Performing mark off metal profile 3.3.3 Performing hand sawing 3.3.4 Performing power sawing 3.3.5 Performing filing a metal 3.3.6 Performing hand drilling 3.3.7 Performing bench drilling 3.3.8 Performing manual thread cutting
		3.4 Performing Sheet Metal Work	3.4.1 Performing hand shearing 3.4.2 Performing machine shearing 3.4.3 Performing chiseling 3.4.4 Performing form sheet metal 3.4.5 Performing soft soldering 3.4.6 Performing riveting 3.4.7 Performing grinding
		3.5 Performing shielded metal arc welding and arc cutting	3.5.1 Carrying out mild steel arc welding 3.5.2 Carrying out mild steel arc cutt
		3.6 Performing gas welding and brazing on ferrous and non-ferrous metals	3.6.1 Carrying out sheet metal welding 3.6.2 Carrying out metal brazing and bronze welding 3.6.3 Carrying out metal cutting by gas flame.

Main Fields	Occupations	Main Competence	Specific competence
		3.7 Performing arc welding of alloy steels and ferrous metals.	3.7.1 Carrying out welding of alloy steels and ferrous metals 3.7.2 Carrying out welding of stainless and carbon steel by TIG welding 3.7.3 Carrying out welding of stainless and carbon steel pipes by MIG/MAG. 3.7.4 Filling worn-out metal surfaces. 3.7.5 Cutting steel plates using plasma-arc cutting. 3.7.6 Cutting steel plates using an electric arc cutting machine
		3.8 Performing Gas Welding on Ferrous and Non-Ferrous Metals	3.8.1 Carrying out welding of ferrous metals 3.8.2 Carrying out welding of non-ferrous metals 3.8.3 Carrying out oxy-fuel powder cutting 3.8.4 Carrying out oxy-fuel gas cutting
		3.9 Performing Fabrication Works According to the Specification	3.9.1 Performing sheet metal fabrication 3.9.2 Fabricating structures of steel profiles 3.9.3 Fabricating structures of aluminum profiles
		3.10 Performing Site Installation Involving Welding	3.10.1 Carrying out welding Works of steel structures
		3.11 Performing Resistance Welding	3.11.1 Carrying out resistance Welding on sheet metals

Main Fields	Occupations	Main Competence	Specific competence
		3.12 Performing arc welding on ferrous and non ferrous metals	3.12.1 Carrying out arc welding on non-ferrous metals 3.12.2 Carrying out arc welding on high pressure vessels 3.12.3 Carrying out welding of steel structures 3.12.4 Carrying out laser-beam welding and cutting on metals
		3.13 Performing advanced gas welding on ferrous and non-ferrous metals	3.13.1 Carrying out gas welding on ferrous and non-ferrous metals
		3.14 Performing advanced gas flame cutting on ferrous metals	3.14.1 Carrying out gas flame cutting on ferrous metals
		3.15 Performing metal spraying on metal surfaces	3.15.1 Carrying out metal spraying
		3.16 Performing advanced fabrication and pipe works	3.16.1 Carrying out metal plate works 3.16.2 Carrying out welding pipe works 3.16.3 Carrying out high density poly ethylene pipe welding (hdpe)
		3.17 Performing welding testing and inspection of steels	3.17.1 Carrying out destructive testing 3.17.2 Carrying out non – destructive testing.

Main Fields	Occupations	Main Competence	Specific competence
		3.18 Performing planning and managerial duties on preventive maintenance	3.18.1 Carrying out planning and report writing 3.18.2 Controlling and manage workshop tools and equipment 3.18.3 Controlling budget and production activities
		3.19 Managing fabrication workshop activities	3.19.1 Designing workshop layout 3.19.2 Controlling tools and equipment movement 3.19.3 Estimating materials and labour cost 3.19.4 Training subordinates 3.19.5 Maintaining records 3.19.6 Managing workshop business
		3.20 Managing safe work environment	3.20.1 Managing hazards 3.20.2 Carrying out risk assessment 3.20.3 Managing environmental issues
4.0 Refrigeration and air conditioning		4.1 Maintaining workshop tools, equipment and safety	4.1.1 Maintaining workshop safety 4.1.2 Maintaining tools 4.1.3 Maintaining equipment and machines 4.1.4 Performing first aid
		4.2 Performing preventive maintenance of tools, equipment and machines	4.2.1 Performing preventive maintenance of electrical tools 4.2.2 Performing preventive maintenance of electrical equipments 4.2.3 Maintaining machines
		4.3 Performing bench works	4.3.1 Performing metal cutting 4.3.2 Performing drilling 4.3.3 Performing metal filling 4.3.4 Performing metal bending 4.3.5 Performing thread 4.3.6 Performing basic spray painting

Main Fields	Occupations	Main Competence	Specific competence
			4.3.7 Performing non fusion joints 4.3.8 Performing pipe joints
		4.4 Building simple electric circuits	4.4.1 Performing cold electrical joints 4.4.2 Performing hot electrical joints 4.4.3 Constructing resistive circuits 4.4.4 Constructing capacitive circuits 4.4.5 Constructing inductive circuits 4.4.6 Constructive RLC circuits 4.4.7 Measuring electric quantities 4.4.8 Testing electro-mechanical components
		4.5 Building simple electronic circuits	4.5.1 Determining characteristic of active electronic devices 4.5.2 Building rectifier circuits 4.5.3 Measuring simple low/high frequency circuits 4.5.4 Performing voltage measurements
		4.6 Maintaining domestic Refrigeration systems	4.6.1 Servicing domestic refrigerators 4.6.2 Servicing domestic freezers 4.6.3 Servicing liquid coolers 4.6.4 Repairing domestic refrigerators 4.6.5 Repairing domestic freezers 4.6.6 Repairing liquid coolers

		4.7 Maintaining refrigeration systems	4.7.1 Servicing commercial refrigerators 4.7.2 Servicing ice maker 4.7.3 Servicing absorption system refrigerators 4.7.4 Repairing commercial refrigerators
			4.7.5 Repairing ice maker 4.7.6 Repairing absorption system refrigerators
		4.8 Maintaining air conditioning systems	4.8.1 Servicing self-contained air conditioners 4.8.2 Servicing split unit air conditioners 4.8.3 Servicing car air conditioners 4.8.4 Repairing self-contained air conditioners 4.8.5 Repairing split unit air conditioners 4.8.6 Repairing car air conditioners
		4.9 Installing air conditioning systems	4.9.1 Installing self-contained air conditioners 4.9.2 Installing split unit air conditioners 4.9.3 Installing cassette type air conditioners
		4.10 Building advanced refrigeration systems	4.10.1 Installing control of AC machines 4.10.2 Installing compression system refrigerant control circuits
		4.11 Designing domestic refrigeration systems	4.11.1 Design and making domestic refrigerator 4.11.2 Design and making domestic freezers 4.11.3 Design and making ice making machine 4.11.4 Design and construct small cold room 4.11.5 Design and making liquid coolers

		4.12 Maintaining industrial air conditioning and refrigeration systems	4.12.1 Servicing cold rooms 4.12.2 Servicing chillers 4.12.3 Servicing central air conditioners 4.12.4 Repairing cold rooms 4.12.5 Repairing chillers 4.12.6 Repairing central cooling systems 4.12.7 Servicing compressor above 60 kW 4.12.8 Servicing receiver tank 4.12.9 Repairing receiver tank
		4.13 Applying advanced material joining techniques	4.13.1 Performing arc welding 4.13.2 Performing resistance welding 4.13.3 Performing aluminium welding
		4.14 Managing safe working environment	4.14.1 Managing Hazards 4.14.2 Carrying out risk assessment 4.14.3 Managing environment
		4.15 Managing preventive maintenance	4.15.1 Planning preventive maintenance 4.15.2 Supervising preventive maintenance
		4.16 Installing commercial and industrial refrigeration and air conditioning systems	4.16.1 Installing cold room 4.16.2 Installing chilling plants 4.16.3 Installing small central air conditioners
		4.17 Managing workshop activities	4.17.1 Designing workshop layout 4.17.2 Controlling tools and equipment 4.17.3 Estimating material and labour cost 4.17.4 Training subordinates 4.17.5 Preparing reports 4.17.6 Managing workshop business

<b>Main Fields</b>	<b>Occupations</b>	<b>Main Competence</b>	<b>Specific competence</b>
	5.0 Fitter Machinist	5.1 Maintaining health, safety, and environment at the workplace	5.1.1 Maintaining workshop safety 5.1.2 Handling accidents and incidence 5.1.3 Handling fire accidents 5.1.4 Performing first aid
		5.2 Performing benchworks	5.2.1 Performing measuring 5.2.2 Performing filing 5.2.3 Performing hand sawing 5.2.4 Performing power sawing 5.2.5 Performing chiseling 5.2.6 Performing drilling 5.2.7 Performing hand threading 5.2.8 Performing punching/ stamping
		5.3 Performing sheet metalworks	5.3.1 Performing shearing 5.3.2 Performing bending 5.3.3 Performing rolling 5.3.4 Performing riveting 5.3.5 Performing soldering
		5.4 Building basic electrical and electronic circuits	5.4.1 Constructing basic electrical circuits 5.4.2 Constructing basic electronic circuits 5.4.3 Measuring electrical and electronic quantities 5.4.4 Carrying out electrical tests
		5.5 Performing lathe machine works	5.5.1 Performing parallel turning 5.5.2 Performing taper turning 5.5.3 Performing threading 5.5.4 Performing drilling and boring 5.5.5 Performing knurling operation

Main Fields	Occupations	Main Competence	Specific competence
			5.5.6 Introduction to computer numerically controlled lathe machines
		5.6 Performing shaper machine works	5.6.1 Performing plane shaping 5.6.2 Performing serration shaping 5.6.3 Performing angular shaping
		5.7 Performing welding works	5.7.1 Performing gas welding 5.7.2 Performing arc - welding
		5.8 Building simple pneumatic and hydraulic circuits.	5.8.1 Building logic circuits 5.7.2 Building control circuits
		5.9 Operating milling machine	5.9.1 Performing plane surface milling 5.9.2 Performing step and angular milling 5.9.3 Performing keyway milling 5.9.4 Performing splines and spur gear milling 5.9.5 Performing round and radius milling 5.9.6 Performing polygon milling
		5.10 Operating grinding machine	5.10.1 Performing surface grinding 5.10.2 Performing cylindrical grinding 5.10.3 Performing tool and cutter grinding
		5.11 Operating gear hobbing machine	5.11.1 Carrying out spur gear and sprocket hobbing 5.11.2 Carrying out helical gear hobbing

<b>Main Fields</b>	<b>Occupations</b>	<b>Main Competence</b>	<b>Specific competence</b>
		5.12 Performing maintenance	5.12.1 Carrying out preventive maintenance on metal cutting machines/metal forming machine 5.12.2 Carrying out corrective maintenance on metal cutting and forming machines 5.12.3 Performing maintenance on hydraulic/pneumatic system 5.12.4 Performing maintenance on hoisting equipment elements
		5.13 Performing metal treatment	5.13.1 Performing heat treatment 5.13.2 Perform chemical treatment
		5.14 Performing lathe machine works	5.14.1 Performing eccentric turning 5.14.2 Perform thread turning
		5.15 Managing safe work environment	5.15.1 Managing hazards 5.15.2 Carrying out risk assessment 5.15.3 Managing environment
		5.16 Managing preventive maintenance	5.16.1 Plan preventive maintenance 5.16.2 Supervise preventive maintenance
		5.17 Performing advanced grinding machine works	5.17.1 Performing crankshaft grinding 5.17.2 Performing centreless grinding 5.17.3 Carrying out thread grinding 5.17.4 Performing tool and cutter grinding 5.17.5 Performing honing

<b>Main Fields</b>	<b>Occupations</b>	<b>Main Competence</b>	<b>Specific competence</b>
		5.18 Performing advanced milling machine works	5.18.1 Performing spiral and worm gear milling 5.18.2 Performing differential index milling 5.18.3 Performing bevel gear milling
		5.19 Performing gear-shaping machine works	5.19.1 Performing spur and helical gear shaping
		5.20 Performing computerized machining works	5.20.1 Performing NC machining 5.20.2 Performing CNC machining 5.20.3 Operating plastic injection moulding machine
		5.21 Managing workshop activities	5.21.1 Designing workshop layout 5.21.2 Controlling tools and equipment 5.21.3 Estimating material and labour cost 5.21.4 Training sub-ordinates 5.21.5 Preparing reports 5.21.6 Managing workshop business
	6.0 Fitter Mechanics	6.1 Maintaining health, safety and environment at workplace	6.1.1 Maintaining workshop safety 6.1.2 Handling accidents and incidence 6.1.3 Handling fire accidents 6.1.4 Performing first aid
		6.2 Performing benchworks	6.2.1 Performing measuring 6.2.2 Performing filing 6.2.3 Performing hand sawing 6.2.4 Performing power sawing 6.2.5 Performing chiselling 6.2.6 Performing drilling 6.2.7 Performing hand threading 6.2.8 Performing punching/ stamping

Main Fields	Occupations	Main Competence	Specific competence
		6.3 Performing sheet metalworks	6.3.1 Performing shearing 6.3.2 Performing bending 6.3.3 Performing rolling 6.3.4 Performing riveting 6.3.5 Performing soldering
		6.4 Building simple electric circuits	6.4.1 Constructing resistive circuits 6.4.2 Constructing capacitive circuits 6.4.3 Constructing inductive circuits 6.4.4 Constructing (RLC) circuits 6.4.5 Measuring electric quantities in circuits
		6.5 Building simple electronic circuits	6.5.1 Determining characteristics of active electronic devices 6.5.2 Building rectifier circuit 6.5.3 Performing measurements on simple low and high-frequency circuits 6.5.4 Troubleshooting analogue electronics circuits
		6.6 Performing lathe machine works	6.6.1 Performing parallel turning 6.6.2 Performing taper turning 6.6.3 Performing threading 6.6.4 Performing drilling and boring 6.6.5 Performing knurling operation
		6.7 Performing shaper machine works	6.7.1 Performing plane shaping 6.7.2 Performing serration shaping 6.7.3 Performing angular shaping
		6.8 Performing welding works	6.8.1 Performing gas welding 6.8.2 Performing arc - welding
		6.9 Building simple pneumatic and hydraulic circuits	6.9.1 Building logic circuits 6.9.2 Building control circuits

Main Fields	Occupations	Main Competence	Specific competence
		6.10 Operating milling machine	6.10.1 Perform plane surface milling 6.10.2 Performing step and angular milling 6.10.3 Performing keyway milling 6.10.4 Performing splines and spur gear milling 6.10.5 Performing round/radius milling 6.10.6 Performing polygon milling
		6.11 Operation grinding machine	6.11.1 Perform surface grinding 6.11.2 Perform cylindrical grinding 6.11.3 Perform tool and cutter grinding
		6.12 Operating gear hobbing machine	6.12.1 Carrying out spur gear/sprocket 6.12.2 Performing step and angular milling
		6.13 Performing maintenance	6.13.1 Preventing on cutting machines/metal 6.13.2 Carrying out corrective maintenance on metal machines/metal
		6.14 Performing advanced welding works	6.14.1 Performing gas and arc welding 6.14.2 Performing metal heat treatment
		6.15 Managing safe work environment	6.15.1 Managing hazards 6.15.2 Carrying out risk assessment 6.15.3 Managing environmental
		6.16 Managing preventive maintenance	6.16.1 Planning preventive maintenance 6.16.2 Performing preventive maintenance

Main Fields	Occupations	Main Competence	Specific competence
		6.17 Performing maintenance/overhauling on complex equipment	6.17.1 Overhauling drive units 6.17.2 Performing maintenance on metal cutting machines 6.17.3 Performing maintenance on automation machine 6.17.4 Maintaining plastic injection moulding machine
		6.18 Performing installation of equipment and acceptance	6.18.1 Installing equipment 6.18.2 Performing equipment tests
		6.19 Performing conventional machine works	6.19.1 Performing milling machine works 6.19.2 Performing advanced lathe machine
		6.20 Managing workshop activities	6.20.1 Designing workshop layout 6.20.2 Controlling tools and equipment 6.20.3 Estimating material and labour 6.20.4 Training sub-ordinates 6.20.5 Preparing reports 6.20.6 Managing workshop business
Civil Engineering	7.0 Masonry and Brick-Laying	7.1 Maintaining the safety of the workshop and surroundings	7.1.1 Maintaining workshop safety 7.1.2 Handling accidents and incidents 7.1.3 Handling fire accidents 7.1.4 Performing first aid 7.1.5 Maintaining environmental issues
		7.2 Preventive maintenance of tools, equipment, and machines	7.2.1 Maintaining tools and equipment 7.2.2 Maintaining machines
		7.3 Performing material tests	7.3.1 Performing site test 7.3.2 Performing laboratory test

Main Fields	Occupations	Main Competence	Specific competence
		7.4 Making blocks, bricks, and pavings	7.4.1 Making blocks 7.4.2 Making bricks 7.4.3 Making paving blocks and kerbstones 7.4.4 Making decorations
		7.5 Constructing foundations and walls	7.5.1 Setting out a building 7.5.2 Excavation of foundation trench 7.5.3 Constructing foundation 7.5.4 Constructing walls
		7.6 Performing wall and floor finishes	7.6.1 Making scaffold 7.6.2 Performing plastering 7.6.3 Performing floor finish
		7.7 Bridging into wall openings	7.7.1 Constructing lintels 7.7.2 Constructing arches 7.7.3 Fixing door and window frames
		7.8 Performing basic estimation and costing	7.8.1 Performing architectural drawings 7.8.2 Performing costing
		7.9 Performing drainage and stone work	7.9.1 Constructing underground drainage system 7.9.2 Installing soil appliances 7.9.3 Constructing sewerage disposal 7.9.4 Performing stonework
		7.10 Performing finishing works	7.10.1 Fixing tiles, pavements, and parquet 7.10.2 Performing pointing and jointing 7.10.3 Making terrazzo 7.10.4 Decorating internal walls
		7.11 Managing small sites	7.11.1 Building a construction team 7.11.2 Preparing contracts 7.11.3 Preparing bill quantities (BOQ) 7.11.4 Managing site 7.11.5 Performing site survey

		7.12 Constructing upper floors	7.12.1 Constructing upper floors 7.12.2 Constructing staircase 7.12.3 Constructing shores
		7.13 Constructing fireplace and flues	7.13.1 Constructing fireplace and chimney breast
			7.13.2 Constructing chimney flues and fix fireplace appliances
		7.14 Performing external finishing and landscaping	7.14.1 Constructing surface drainage 7.14.2 Performing landscaping and gardening
		7.15 Managing safe work environment	7.15.1 Manage hazards 7.15.2 Managing environment
		7.16 Managing preventive maintenance	7.16.1 Planning preventive maintenance
			7.16.2 Supervising preventive maintenance
	8.0 Civil Draughting	8.1 Maintaining safety of workshop and surroundings	1.1.1 Maintaining workshop safety 1.1.2 Handling accidents and incidents 1.1.3 Handling accidents and incidents 1.1.4 Handling fire accidents 1.1.5 Performing first aid 1.1.6 Maintaining workshop environments
		8.2 Preventive maintenance of tools and equipment	1.2.1 Maintaining tools and equipment
		8.3 Performing technical drawing	1.3.1 Performing technical drawings
			1.3.2 Applying scaling

Main Fields	Occupations	Main Competence	Specific competence
		8.4 Identifying building materials	1.4.1 Identifying binding materials 1.4.2 Identifying structural building materials 1.4.3 identifying glass and plastic materials 1.4.4 Identifying paints
		8.5 Producing basic building drawings	1.5.1 Producing architectural drawings 1.5.2 Writing specifications
		8.6 Adapting building construction technologies	1.6.1 Preparing openings assembly details 1.6.2 Adapting construction techniques 1.6.3 Preparing openings assembly details 1.6.4 Installing building services
		8.7 Performing physical building measurements	1.7.1 Carrying out physical building measurements 1.7.2 Preparing measured drawings and documentation
		8.8 Producing working drawings by using CAD software	8.8.1 Applying computer aided design in producing working drawings 8.8.2 Producing architectural drawings 8.8.3 Preparing Services drawings and layouts 8.8.4 Making models
		8.9 Preparing structural detailed drawings	8.9.1 Preparing building structural detailed drawings 8.9.2 Preparing steel bending schedules

Main Fields	Occupations	Main Competence	Specific competence
		8.10 Performing architectural design	8.10.1 Performing basic design procedures 8.10.2 Preparing sketch designs by using CAD software 8.10.3 Preparing architectural brief 8.10.4 Performing building refurbishment
		8.11 Performing architectural practice and regulations	8.11.1 Applying building law
		8.12 Performing building estimates and costing	8.12.1 Preparing building estimates 8.12.2 Performing cost estimates
		8.13 Performing construction management practice	8.13.1 Performing site works 8.13.2 Performing site survey 8.13.3 Managing personal and environment safety 8.13.4 Carrying out administrative tasks at site 8.13.5 Carrying out risk assessment 8.13.6 Managing environmental pollution
		8.14 Managing preventive maintenance	8.14.1 Planning preventive maintenance 8.14.2 Supervising preventive maintenance

Main Fields	Occupations	Main competences	Specific competences
	9.0 Carpentry and Joinery with Metal Works	9.1 Maintaining safety of workshop, occupation health and safety at workplace and surroundings	9.1.1 Maintaining environmental issues Maintaining healthy, safety and environment at workshop 9.1.2 Handling accidents and incidents 9.1.3 Handling fire accidents 9.1.4 Performing First Aid 9.1.5 Maintaining environmental issues
		9.2 Performing timber processing and treatment	9.2.1 Performing timber processing 9.2.2 Performing timber treatment
		9.3 Constructing simple furniture	9.3.1 Performing timber preparation 9.3.2 Making joints 9.3.3 Making up right furniture 9.3.4 Performing finishing work
		9.4 Making frames	9.4.1 Making door frame and window frames 9.4.2 Making corner frames
		9.5 Constructing wooden door shutters & window shutters	9.5.1 Constructing door shutters 9.5.2 Constructing window shutters
		9.6 Constructing simple roofs	9.6.1 Constructing lean-to roof 9.6.2 Constructing gable roofs
		9.7 Constructing temporary support	9.7.1 Constructing formwork 9.7.2 Erecting scaffoldings

Main Fields	Occupations	Main competences	Specific competences
		9.8 Fabricating and fixing aluminium/PVC profile structures	9.8.1 Fabricating aluminium/PVC partitions 9.8.2 Fabricating aluminium/PVC doors 9.8.3 Fabricating aluminium/PVC windows 9.8.4 Fabricating aluminium/PVC show cases
		9.9 Constructing temporary supports	9.9.1 Constructing shuttering 9.9.2 Erecting shoring 9.9.3 Constructing centering 9.9.4 Constructing timbering to trench
		9.10 Constructing ceilings	9.10.1 Constructing ceiling frame 9.10.2 Fixing ceiling boards
		9.11 Constructing furniture	9.11.1 Constructing complex furniture 9.11.2 Making sofa 9.11.3 Performing wood turning
		9.12 Performing site plan and setting out	9.12.1 Setting out a building 9.12.2 Making fence
		9.13 Performing basic estimation and costing	9.13.1 Estimating materials. 9.13.2 Performing costing.
		9.14 Constructing roofs	9.14.1 Constructing hipped roof. 9.14.2 Constructing eaves and bargeboard 9.14.3 Constructing roof light
		9.15 Performing timber structures	9.15.1 Constructing timber stairs 9.15.2 Constructing timber walls 9.15.3 Constructing timber floors

Main Fields	Occupations	Main competences	Specific competences
		9.16 Managing workplace	9.16.1 Planning and laying out workshop/workplace 9.16.2 Managing tools, equipment and materials 9.16.3 Performing job estimation and billing
		9.17 Managing safe work environment	9.17.1 Managing hazards 9.17.2 Carrying out risk assessment 9.17.3 Managing environmental issues
		9.18 Managing preventive maintenance	9.18.1 Planning preventive maintenance 9.18.2 Supervising preventive maintenance
	10.0 Plumbing and Pipe Fitting	10.1 Maintaining safety of workshop and surroundings	10.1.1 Maintaining workshop safety 10.1.2 Handling accidents and incidents 10.1.3 Handling fire accidents 10.1.4 Performing first aid 10.1.5 Maintaining environmental issues
		10.2 Performing bench work	10.2.1 Performing hand hacksaw cutting 10.2.2 Performing power hacksaw cutting 10.2.3 Performing metal filing 10.2.4 Performing hand drilling 10.2.5 Performing bench drilling 10.2.6 Performing manual thread cutting
		10.3 Installing pipe, taps and valves	10.3.1 Cutting pipes 10.3.2 Bending pipes 10.3.3 Installing taps and valves
		10.4 Installing water supply system	10.4.1 Performing pipe joining 10.4.2 Installing cold water supply to the building

Main Fields	Occupations	Main Competence	Specific competence
		10.5 Installing domestic water supply system	10.5.1 Installing irrigation system 10.5.2 Installing, servicing and repairing hot water supply system
		10.6 Installing sanitary appliances	10.6.1 Installing and repairing waste appliances 10.6.2 Installing and repairing soil appliances
		10.7 Installing sanitary pipe work system	10.7.1 Installing and maintaining above ground drainage system 10.7.2 Installing and maintaining underground drainage system
		10.8 Installing domestic gas supply systems	10.8.1 Installing Gas Pipe System to the Building
		10.9 Performing sheet metal works	10.9.1 Performing hand shearing 10.9.2 Performing machine shearing 10.9.3 Performing sheet metal forming 10.9.4 Performing soft soldering 10.9.5 Performing riveting 10.9.6 Performing grinding 10.9.7 Project
		10.10 Fabricating sheet metal works	10.10.1 Performing gas welding and brazing 10.10.2 Performing arc welding
		10.11 Preforming rain water harvest	10.11.1 Performing roof guttering 10.11.2 Performing installation of rain water harvesting system 10.11.3 Performing capturing of water run-off from road surfaces 10.11.4 Performing servicing of rain water harvesting system components

Main Fields	Occupations	Main Competence	Specific competence
		10.12 Installing water mains	10.12.1 Installing water distribution mains 10.12.2 Installing and operating centrifugal pump
		10.13 Performing water treatment	10.13.1 Performing water treatment 10.13.2 Maintaining water quality level
		10.14 Performing basic estimating and costing	10.14.1 Estimating materials 10.14.2 Performing costing
		10.15 Installing industrial hot water supply system	10.15.1 Installing heating systems 10.15.2 Maintaining heating system
		10.16 Project	10.16.1 Project
		10.17 Installing pumps	10.17.1 Installing reciprocating/piston pump appliances 10.17.2 Installing rotary pump 10.17.3 Installing hydraulic ram pump
		10.18 Constructing wells	10.18.1 Constructing hand drilled shallow wells 10.18.2 Constructing dug wells
		10.19 Managing workshop	10.19.1 Planning layout and workshop 10.19.2 Managing tools, equipment, machines and materials 10.19.3 Supervising subordinates in a workshop
		10.20 Managing safe work environment	10.20.1 Managing hazards 10.20.2 Carrying out risk assessment 10.20.3 Managing environment
		10.21 Managing preventive maintenance	10.21.1 Planning preventive maintenance 10.21.2 Supervising preventive maintenance
		10.22 Project	10.22.1 Project

<b>Main Fields</b>	<b>Occupations</b>	<b>Modules (Main Competence)</b>	<b>Units (Specific competences)</b>
	11.0 Painting and Sign Writing	11.1 Maintaining safety of workshop, occupational health & safety at workplace and surroundings	11.1.1 Maintaining health, safety and environment (hse) at workshop/ workplace 11.1.2 Handling accidents and incidents 11.1.3 Handling fire accidents 11.1.4 Performing First Aid 11.1.5 Maintaining environmental issues
		11.2 Performing mixing and selection of paints, clear finishes and colours	11.2.1 Carrying out paints formulation 11.2.2 Performing selection and application of paints 11.2.3 Performing selection and application of clear finishing 11.2.4 Performing colour matching
		11.3 Performing structure painting	11.3.1 Performing ceiling painting 11.3.2 Perform wall painting 11.3.3 Carrying out wooden surfaces painting 11.3.4 Carrying out metal surfaces painting 11.3.5 Rectifying paint defects
		11.4 Performing basic signwriting	11.4.1 Carrying out lettering. 11.4.2 Carrying out safety signs 11.4.3 Carrying out letter stenciling 11.4.4 Carrying out decoration stencilling
		11.5 Performing basic estimating and costing	11.5.1 Estimating materials 11.5.2 Performing costing

Main Fields	Occupations	Modules (Main Competence)	Units (Specific competences)
		11.6 Performing plate spraying	11.6.1 Carrying out surface and material preparation 11.6.2 Carrying out plate spraying
		11.7 Performing wall finishing	11.7.1 Performing chipping 11.7.2 Performing wall decoration 11.7.3 Carrying out wall papering
		11.8 Carry out roof and floor painting	11.8.1 Carrying out roof painting 11.8.2 Carrying out floor painting
		11.9 Perform furniture finishing	11.9.1 Carrying out application of clear finishes on wooden furniture 11.9.2 Carrying out staining and painting on wooden furniture 11.9.3 Carrying out painting on metal furniture
		11.10 Performing signwriting	11.10.1 Carrying out letter forms and styles 11.10.2 Making safety sign
		11.11 Performing glazing	11.11.1 Carrying out glazing on wooden frame 11.11.2 Carrying out glazing on metal frame
		11.12 Perform advance signwriting	11.12.1 Carrying out roman and gothic lettering 11.12.2 Making road sign
		11.13 Performing printing	11.13.1 Carrying out screen printing 11.13.2 Performing computer aided printing

<b>Main Fields</b>	<b>Occupations</b>	<b>Modules (Main Competence)</b>	<b>Units (Specific competences)</b>
		11.14 Performing spray painting	11.14.1 Preparing panel for spraying 11.14.2 Carrying out panel spraying
		11.15 Managing painting and sign workshop	11.15.1 Establishing tools, equipment profile 11.15.2 Estimating materials and labour cost 11.15.3 Preparing a small scale tender document 11.15.4 Training subordinates on the job 11.15.5 Supervising subordinates
		11.16 Managing safe work environment	11.16.1 Managing hazards 11.16.2 Carrying out risk assessment 11.16.3 Managing environment
Automotive Engineering	12.0 Motor vehicle mechanics	12.1 Maintaining the safety of the workshop and surroundings	12.1.1 Maintaining workshop safety 12.1.2 Handling accidents and incidents 12.1.3 Handling fire accidents 12.1.4 Performing first aid
		12.2 Maintaining workshop safety	12.2.1 Performing cutting 12.2.2 Performing filing 12.2.3 Performing drilling 12.2.4 Performing riveting 12.2.5 Performing threading 12.2.6 Performing metal forming
		12.3 Performing welding and fabrication	12.3.1 Performing arc welding 12.3.2 Performing gas welding 12.3.3 Performing soldering

Main Fields	Occupations	Main Competence	Specific competence
		12.4 Maintaining wheels and tyres	12.4.1 Repairing tubed tyres 12.4.2 Repairing tubeless tyres 12.4.3 Performing wheel balancing 12.4.4 Servicing wheel hubs 12.4.5 Servicing automatic tyre pressure monitoring system
		12.5 Carrying out general vehicle services	12.5.1 Performing service of engine lubrication systems 12.5.2 Performing service of fuel system 12.5.3 Servicing cooling systems 12.5.4 Performing service of transmission systems 12.5.5 Performing greasing
		12.6 Carrying out general maintenance on electrical and electronic systems	12.6.1 Maintaining batteries 12.6.2 Constructing simple electronic circuits 12.6.3 Constructing simple electronic circuits 12.6.4 Servicing conventional ignition system 12.6.5 Servicing electronic ignition systems 12.6.6 Maintaining the lighting system 12.6.7 Servicing accessories circuits and components
		12.7 Maintaining suspension system	12.7.1 Replacing suspension bushes 12.7.2 Replacing suspension shock absorbers 12.7.3 Troubleshooting air suspensions 12.7.4 Servicing air (pneumatic) suspension components

Main Fields	Occupations	Main Competence	Specific competence
		12.8 Maintaining brake system	12.8.1 Servicing hydraulic brake system components 12.8.2 Servicing drum brakes 12.8.3 Servicing disc brakes 12.8.4 Servicing anti-lock brake system (ABS) 12.8.5 Servicing pneumatic brakes 12.8.6 Servicing electronically controlled brake system (EBS)
		12.9 Maintaining steering system	12.9.1 Performing wheel alignment 12.9.2 Servicing steering boxes 12.9.3 Servicing power steering systems
		12.10 Carrying out engine maintenance	12.10.1 Diagnosing engine performance 12.10.2 Dismantling engines 12.10.3 Servicing Cylinder head 12.10.4 Performing cylinder block measurements 12.10.5 Performing crankshaft measurements 12.10.6 Performing camshaft measurements 12.10.7 Checking connecting rods 12.10.8 Checking piston wear 12.10.9 Assembling engine 12.10.10 Carrying out ignition system 12.10.11 Adjusting valve clearance
		12.11 Maintain fuel system	12.11.1 Servicing petrol fuel system 12.11.2 Servicing natural gas fuel system 12.11.3 Repairing diesel fuel system

Main Fields	Occupations	Main Competence	Specific competence
		12.12 Maintaining emission control system	12.12.1 Servicing catalytic converter 12.12.2 Servicing oxygen sensor 12.12.3 Repairing exhaust system
		12.13 Maintaining engine enhancing	12.13.1 Servicing supercharger 12.13.2 Overhauling turbocharger 12.13.3 Servicing exhaust gas recirculation system 12.13.4 Servicing engine retarder
		12.14 Maintain power transmission system	12.14.1 Maintaining clutch systems 12.14.2 Maintaining manual gearboxes 12.14.3 Maintaining final drive unit
		12.15 Maintaining simple hydraulic system and components	12.15.1 Diagnosing basic hydraulic system 12.15.2 Servicing basic hydraulic system components
		12.16 Performing lathe machine operation	12.16.1 Performing turning 12.16.2 Performing thread cutting 12.16.3 Performing boring
		12.17 Maintaining heating Ventilation and air conditioning system	12.17.1 Servicing air conditioning system components 12.17.2 Servicing air-conditioning heating system components
		12.18 Maintaining fuel injection system	12.18.1 Servicing electronic controlled gasoline injection components 12.18.2 Service Electronic Controlled Diesel Injection System

Main Fields	Occupations	Main Competence	Specific competence
		12.19 Maintaining electrical components	12.19.1 Servicing starter motor 12.19.2 Servicing alternators
		12.20 Servicing automatic transmission	12.20.1 Trouble-shooting conventional automatic transmission 12.20.2 Trouble-shooting electrically controlled automatic transmission
		12.21 Managing safety work environment	12.21.1 Managing hazards 12.21.2 Carrying out risk assessment 12.21.3 Managing environment
		12.22 Managing preventive maintenance	12.22.1 Planning preventive maintenance 12.22.2 Supervising preventive maintenance
		12.23 Managing workshop activities	12.23.1 Designing workshop layout 12.23.2 Controlling tools and equipment 12.23.3 Estimating materials and labour 12.23.4 Performing on job training to subordinate 12.23.5 Preparing report 1.23.6 Managing workshop business

Main Fields	Occupations	Modules (Main Competence)	Units (Specific competences)
	13.0 Auto-Electric Mechanics	13.1 Maintaining the safety of the workshop and surroundings	13.1.1 Maintaining workshop safety 13.1.2 Handling accidents and incidents 13.1.3 Handling fire accidents 13.1.4 Performing First aid
		13.2 Performing bench works	13.2.1 Performing cutting 13.2.2 Performing filling 13.2.3 Performing drilling 13.2.4 Performing reverting 13.2.5 Performing threading 13.2.6 Performing metal forming
		13.3 Performing welding processes	13.3.1 Performing arc welding 13.3.2 Performing gas welding 13.3.3 Performing soldering
		13.4 Building simple electric circuits	13.4.1 Constructing simple electric circuits 13.4.2 Measuring electric quantities
		13.5 Maintaining wheels and tyres	13.5.1 Replacing tyres 13.5.2 Repairing tube and tubeless tyres 13.5.3 Performing wheel balancing 13.5.4 Servicing wheel hubs
		13.6 Building simple electronic circuits.	13.6.1 Determining characteristics of active electronic components 13.6.2 Determining the characteristics of passive electronic components. 13.6.3 Constructing simple electronic circuits.
		13.7 Carrying out general maintenance on electrical and electronic systems.	13.7.1 Maintaining batteries 13.7.2 Servicing electrical and electronic circuits

Main Fields	Occupations	Modules (Main Competence)	Units (Specific competences)
		13.8 Maintaining starting systems.	13.8.1 Servicing starting systems 13.8.2 Maintaining starter motors
		13.9 Carrying out general vehicle services.	13.9.1 Servicing engine lubrication systems 13.9.2 Servicing fuel systems 13.9.3 Servicing cooling systems 13.9.4 Servicing transmission systems 13.9.5 Performing greasing
		13.10 Maintaining the lighting system.	13.10.1 Repairing headlight systems. 13.10.2 Repairing turn signals and hazard lights 13.10.3 Servicing parking lights 13.10.4 Servicing brake light systems
		13.11 Repairing hydraulic brake system.	13.11.1 Servicing hydraulic brake system components 13.11.2 Servicing drum brake 13.11.3 Servicing disc brakes
		13.12 Maintaining suspension system.	13.12.1 Replacing suspension bushes. 13.12.2 Replacing suspension shock absorbers. 13.12.3 Replacing steel suspension springs
		13.13 Carrying out engine maintenance.	13.13.1 Performing engine non destruction tests. 13.13.2 Adjusting valve clearance. 13.13.3 Carrying out ignition timing
		13.14 Maintaining charging system.	13.14.1 Servicing charging systems 13.14.2 Servicing alternators.
		13.15 Maintaining accessories, circuits and components.	13.15.1 Servicing radio systems. 13.15.2 Servicing audio-visual (TV) systems 13.15.3 Servicing defogger's systems 13.15.4 Servicing air bag system 13.15.5 Servicing electric horn systems

<b>Main Fields</b>	<b>Occupations</b>	<b>Modules (Main Competence)</b>	<b>Units (Specific competences)</b>
		13.16 Maintaining ignition systems.	13.16.1 Servicing conventional ignition systems 13.16.2 Servicing computerized ignition systems. 13.16.3 Servicing electronic ignition systems
		13.17 Maintaining electric fuel systems.	13.17.1 Servicing petrol fuel electric system. 13.17.2 Servicing diesel electric fuel systems
		13.18 Maintaining emission control system.	13.18.1 Servicing catalytic converter 13.18.2 Servicing oxygen sensor 13.18.3 Servicing muffler and pipes 13.18.4 Servicing exhaust gas recirculation valve (EGR).
		13.19 Maintaining display panel instruments	13.19.1 Serving panel gauges 13.19.2 Servicing panel light systems 13.19.3 Servicing electronic speed meters 13.19.4 Servicing tachometer systems
		13.20 Servicing electrical accessories.	13.20.1 Servicing central door lock systems 13.20.2 Servicing power seat systems 13.20.3 Servicing power window systems 13.20.4 Servicing power mirror systems 13.20.5 Servicing safety belt monitoring systems
		13.21 Maintaining electronic components	13.21.1 Servicing sensors 13.21.2 Servicing electronic control unit (ECU)
		13.22 Maintaining safe work environment	13.22.1 Managing hazards 13.22.2 Carrying out risk assessment 13.22.3 Managing environment

<b>Main Fields</b>	<b>Occupations</b>	<b>Modules (Main Competence)</b>	<b>Units (Specific competences)</b>
		13.23 Managing preventive maintenance	13.23.1 Planning preventive maintenance. 13.23.2 Supervising preventive maintenance
		13.24 Carrying out engine management	13.24.1 Tuning up petrol fuel engines 13.24.2 Tuning up diesel fuel engines
		13.25 Maintaining automotive air condition system	13.25.1 Servicing automotive manual-controlled air conditioning systems 13.25.2 Servicing automatic air conditioning systems 13.25.3 Maintaining on board refrigerators
		13.26 Servicing chassis electronics and accessories systems.	13.26.1 Servicing Anti- lock Brake System (ABS). 13.26.2 Servicing vehicle security systems. 13.26.3 Servicing electronic suspension systems 13.26.4 Servicing electronic shift transmissions. 13.26.5 Servicing tire pressure monitoring systems
		13.27 Managing workshop activities	13.27.1 Designing workshop layout 13.27.2 Controlling tools and equipment movement 13.27.3 Estimating material and labor cost 13.27.4 Training subordinates 13.27.5 Preparing reports 13.27.6 Managing workshop business

Main Fields	Occupations	Main competences	Specific competences
	14.0 Auto-Body Repair	14.1 Maintaining safety on the workshop and surrounding	14.1.1 Maintaining workshop safety 14.1.2 Handling accidents and incidents 14.1.3 Handling Fire Accidents 14.1.4 Performing First Aid
		14.2 Performing bench work	14.2.1 Performing Measurements 14.2.2 Performing metal cutting 14.2.3 Performing metal filing 14.2.4 Performing drilling 14.2.5 Performing riveting 14.2.6 Performing threading 14.2.7 Performing metal forming
		14.3 Performing Sheet Metal Work	14.3.1 Performing Hand Shearing/snipping 14.3.2 Performing Machine shearing
		14.4 Performing soft soldering and Hard soldering on vehicle components and panels	14.4.1 Performing soft soldering 14.4.2 Performing metal brazing and bronze welding
		14.5 Performing vehicle general check-up	14.5.1 Carrying out vehicle general check-up 14.5.2 Servicing electrical wiring system 14.5.3 Servicing accessories circuit and components 14.5.4 Maintaining batteries
		14.6 Performing gas welding on vehicle body panels	14.6.1 Performing gas welding on vehicle body panels 14.6.2 Carrying out body panel cutting by flame
		14.7 Performing arc welding and cutting on the vehicle frame	14.7.1 Carrying out mild steel arc welding 14.7.2 Carrying out mild steel arc cutting
		14.8 Performing straightening of car body panel	14.8.1 Performing straightening of car body panel 14.8.2 Carrying out spray painting for bent body panel

Main Fields	Occupations	Main competences	Specific competences
		14.9 Carry out spray painting for bent body panel	14.9.1 Carrying out welding on ferrous metal body panels 14.9.2 Carrying out welding on non-ferrous metals 14.9.3 Carrying out metal brazing and bronze welding
		14.10 Performing repair of accident body panel	14.10.1 Carrying out dismantling of body parts 14.10.2 Carrying out straightening by cold/ hot shrinking
		14.11 Performing resistance welding	14.11.1 Carrying out resistance welding on sheet metals 14.11.2 Carrying out resistance welding on thin metals
		14.12 Performing straightening bent body frame	14.12.1 Carrying out dismantling body attachments 14.12.2 Carrying out straightening of the bent vehicle body
		14.13 Performing repair of the rusted body part	14.13.1 Carrying out welding of rusted parts 14.13.2 Carrying out mild steel arc cutting
		14.14 Performing alignment of car body panels	14.14.1 Carrying out the alignment of body panels 14.14.2 Carrying out sanding car body panels
		14.15 Performing thick metal cutting by gas welding	14.15.1 Carrying out gas cutting on thin metal plates 14.15.2 Carrying out gas cutting on thick metal plates
		14.16 Performing car body plastic filling	14.16.1 Carrying out plastic filling on rigid body panel
		14.17 Performing painting on a panel	14.17.1 Carrying out painting on the exterior body panel
			14.17.2 Carry out painting on interior body panel
		14.18 Maintaining emission control system	14.18.1 Servicing catalytic converter
			14.18.2 Repairing leaking exhaust pipe/muffler

Main Fields	Occupations	Main competences	Specific competences
		14.19 Performing straightening bent body frame	14.19.1 Carrying out spray paint on car body 14.19.2 Carrying out metallic spray painting on car body
		14.20 Performing arc welding on various vehicle body parts	14.20.1 Carrying out arc welding on non-ferrous metals 14.20.2 Carrying out welding on plates using MIG and TIG welding
		14.21 Performing gas welding on vehicle body brackets	14.21.1 Carrying out gas welding on ferrous and non-ferrous metals 14.21.2 Carrying out gas cutting on ferrous metals
		14.22 Managing safe work environment	14.22.1 Managing hazards 14.22.2 Carrying out risk assessment 14.22.3 Managing environment
		14.23 Managing preventive maintenance	14.23.1 Planning preventive maintenance 14.23.2 Supervising preventive maintenance
		14.24 Performing fabrication of vehicle body components	14.24.1 Carrying out fabrication of motor-vehicle wing panel 14.24.2 Carrying out heavy metal welding
		14.25 Performing installation of vehicle body attachment	14.25.1 Carrying out installation of a wind screen and vent glass 14.25.2 Carrying out installation of electrical and body surface fittings
		14.26 Manage auto shop	14.26.1 Establishing tools, equipment and materials profile 14.26.2 Estimating material and labor costs 14.26.3 Preparing a small-scale tender document 14.26.4 Training subordinates on the job 14.26.5 Supervising subordinates

Main Fields	Occupations	Main Competence	Specific competences
	15. Motor-Cycle Mechanics	15.1 Maintaining health, safety and environment at workplace	15.1.1 Maintaining workshop safety 15.1.2 Handling accidents and incidents 15.1.3 Handling fire accidents 15.1.4 Performing first aid
		15.2 Performing preventive maintenance of tools, machines and equipment	15.2.1 Conducting preventive maintenance of work tools 15.2.2 Conducting preventive maintenance of workshop machines
		15.3 Building simple electric circuits	15.3.1 Constructing simple electric circuits 15.3.2 Measure electric quantities
		15.4 Performing bench work	15.3.3 Performing cutting 15.3.4 Performing filing 15.3.5 Performing drilling 15.3.6 Performing riveting 15.3.7 Performing threading 15.3.8 Performing metal forming
		15.4 Performing welding processes	15.4.1 Performing arc welding 15.4.2 Performing gas welding 15.4.3 Performing soldering
		15.5 Building simple electronic circuits	15.5.1 Determining characteristics of active electronic components 15.5.2 Determining characteristics of passive electronic components 15.5.3 Constructing simple electronic circuits
		15.6 Carrying out engine service	15.6.1 Performing engine maintenance 15.6.2 Performing engine cooling system service 15.6.3 Performing fuel system service

Main Fields	Occupations	Main Competence	Specific competences
		15.7 Carrying out repairing of wheel and tyres	15.7.1 Performing tyres service 15.7.2 Repairing tube and tubeless tyres 15.7.3 Performing wheel balance 15.7.4 Aligning wheels 15.7.5 Servicing wheel
		15.8 Performing service of steering and suspension systems	15.8.1 Performing steering system service 15.8.2 Performing suspension system service
		15.9 Performing service of transmission system	15.9.1 Performing service of gear box 15.9.2 Performing clutch system service 15.9.3 Maintaining chain and sprockets 15.9.4 Performing drive shaft and final drive service
		15.10 Carrying out service of the chassis	15.10.1 Maintaining three wheeled body 15.10.2 Carrying out side car body maintenance 15.10.3 Maintaining motorcycle chassis
		15.11 Maintaining brake system	15.11.1 Maintaining front disc brake 15.11.2 Performing front cable brake maintenance 15.11.3 Maintaining drum brake
		15.12 Carrying out general maintenance on electrical and electronic systems	15.12.1 Performing battery maintenance 15.12.2 Servicing electrical and electronic circuits 15.12.3 Servicing conventional ignition systems 15.12.4 Servicing light system 15.12.5 Servicing accessories circuits and components

Main Fields	Occupations	Main Competence	Specific competences
		15.13 Maintaining emission control system	15.13.1 Servicing catalytic converter 15.13.2 Servicing oxygen sensor 15.13.3 Repairing exhaust system components
		15.14 Carrying out engine repairing	15.14.1 Dismantling engine 15.14.2 Repairing engine components
		15.15 Repairing transmission system	15.15.1 Carrying out gear box dismantling 15.15.2 Carrying out repair of gear box
		15.16 Managing safe work environment	15.16.1 Managing hazards 15.16.2 Carrying out risk assessment 15.16.3 Managing environment
		15.17 Managing preventive maintenance	15.17.1 Planning preventive maintenance 15.17.2 Supervising preventive maintenance
		15.18 Troubleshooting motorcycle faults	15.18.1 Troubleshooting engine faults 15.18.2 Tracing electrical system faults
		15.19 Managing workshop activities	15.19.1 Designing workshop layout 15.19.2 Controlling tools and equipment 15.19.3 Estimating material and labour cost 15.19.4 Training subordinates 15.19.5 Preparing reports 15.19.6 Preparing reports

<b>Main Fields</b>	<b>Occupations</b>	<b>Main competences</b>	<b>Specific competences</b>
	16.0 Agro-Mechanics	16.1 Maintaining safety of workshop and surroundings	16.1.1 Maintaining workshop safety 16.1.2 Handling accidents and incidents 16.1.3 Handling fire accidents 16.1.4 Performing first aid
		16.2 Performing preventive maintenance of tools, equipment and machines	16.2.1 Conducting preventive maintenance of work tools 16.2.2 Maintaining machines
		16.3 Performing bench works	16.3.1 Performing cutting 16.3.2 Performing filing 16.3.3 Performing drilling 16.3.4 Performing riveting 16.3.5 Performing threading 16.3.6 Performing metal forming
		16.4 Performing welding process	16.4.1 Performing arc welding 16.4.2 Performing gas welding 16.4.3 Performing soldering
		16.5 Carrying out basic auto-electric works general maintenance of electric and electronic systems	16.5.1 Performing battery maintenance 16.5.2 Servicing electrical and electronic circuits 16.5.3 Servicing conventional ignition systems 16.5.4 Servicing lighting system 16.5.5 Servicing auxiliary circuits and components
		16.6 Carrying out general tractor service	16.6.1 Servicing engine lubrication systems 16.6.2 Servicing fuel systems 16.6.3 Servicing engine cooling systems 16.6.4 Servicing transmission systems 16.6.5 Performing greasing

Main Fields	Occupations	Main competences	Specific competences
		16.7 Carrying out repair of wheels and tyres	16.7.1 Replacing tyres 16.7.2 Repairing tube and tubeless tyres 16.7.3 Performing wheel balancing 16.7.4 Servicing wheel hubs
		16.8 Servicing steering system	16.8.1 Performing wheel alignment 16.8.2 Servicing steering box 16.8.3 Servicing power steering systems
		16.9 Repairing brake system	16.9.1 Servicing hydraulic brakes system 16.9.2 Servicing antilock braking system (abs)
		16.10 Maintaining suspension systems	16.10.1 Replacing suspension bushes 16.10.2 Replacing suspension shock absorbers 16.10.3 Replacing steel suspension springs
		16.11 Carrying out engine maintenance	16.11.1 Performing engine non-destructive tests 16.11.2 Adjusting valve clearance 16.11.3 Setting ignition timing
		16.12 Performing lathe machine works	16.12.1 Performing turning 16.12.2 Performing thread cutting 16.12.3 Performing boring
		16.13 Maintaining animal draught implements	16.13.1 Servicing animal draught implements 16.13.2 Servicing animal draught planters
		16.14 Maintaining grass cutting machines	16.14.1 Servicing forage harvesters 16.14.2 Servicing balling machines

<b>Main Fields</b>	<b>Occupations</b>	<b>Main competences</b>	<b>Specific competences</b>
		16.15 Operating farm machinery and equipment	16.15.1 Operating tillage machinery 16.15.2 Operating cultivating machines 16.15.3 Operating harvesting machines
		16.16 Project	16.16.1 Project
		16.17 Overhauling engines	16.17.1 Dismantling engines 16.17.2 Servicing cylinder heads 16.17.3 Performing cylinder block measurements 16.17.4 Performing crankshaft measurements 16.17.5 Performing camshaft measurements 16.17.6 Checking connecting rods 16.17.7 Checking piston wear 16.17.8 Assembling engines
		16.18 Maintaining fuel systems	16.18.1 Servicing petrol fuel systems 16.18.2 Repairing natural gas fuel systems 16.18.3 Servicing diesel fuel systems
		16.19 Maintaining emission control system	16.19.1 Servicing catalytic converter 16.19.2 Servicing oxygen sensor 16.19.3 Repairing muffler and pipes
		16.20 Servicing hydraulic system	16.20.1 Repairing hydraulic pipes 16.20.2 Servicing hydraulic actuators
		16.21 Servicing transmission system.	16.21.1 Servicing clutch systems 16.21.2 Overhauling manual gear box 16.21.3 Overhauling final drive unit 16.21.4 Servicing automatic transmission system

Main Fields	Occupations	Main competences	Specific competences
		16.22 Carrying out advanced welding process	16.22.1 Performing TIG and MIG welding 16.22.2 Performing resistance welding 16.22.3 Performing butt fusion welding
		16.23 Maintaining tillage machinery	16.23.1 Performing maintenance of tillage machinery 16.23.2 Servicing cultivators / weeders
		16.24 Maintaining spraying machinery	16.24.1 Servicing boom sprayers 16.24.2 Servicing hand sprayers 16.24.3 Performing crop protection
		16.25 Maintaining agricultural processing machines	16.25.1 Performing maintenance of shellers and threshers machine 16.25.2 Performing maintenance of pulping machines 16.25.3 Performing maintenance of decorticating machines 16.25.4 Servicing milking machines 16.25.5 Servicing feed mixer 16.25.6 Servicing choppers 16.25.7 Servicing grain processing machines 16.25.8 Servicing cassava processing machines 16.25.9 Servicing oil expellers 16.25.10 Performing palletizer machine 16.25.11 Performing husky machine operation
		16.26 Project	16.26.1 Project
		16.27 Maintaining planting machinery	16.27.1 Maintaining tractor drawn machine 16.27.2 Maintaining transplanting equipment

Main Fields	Occupations	Main competences	Specific competences
		16.28 Maintaining fertilizer machinery	16.28.1 Performing maintenance of fertilizer applicators and distributors equipment 16.28.2 Performing maintenance of manure spreader equipment
		16.29 Using organic fertilizers and herbicides	16.29.1 Applying organic fertilizers 16.29.2 Applying organic herbicides
		16.30 Managing safe working environment	16.30.1 Managing hazards 16.30.2 Carrying out risk assessment 16.30.3 Managing environment
		16.31 Managing preventive maintenance	16.31.1 Planning preventive maintenance 16.31.2 Supervising preventive maintenance
		16.32 Maintaining agricultural machinery	16.32.1 Servicing harvesters 16.32.2 Operating agricultural machinery
		16.33 Servicing agricultural pumps	16.33.1 Servicing centrifugal pumps 16.33.2 Servicing plunger pumps 16.33.3 Servicing impeller pumps 16.33.4 Servicing gear type pumps 16.33.5 Servicing piston pumps 16.33.6 Servicing diaphragm pumps 16.33.7 Servicing submersible pumps 16.33.8 Performing irrigation
		16.34 Managing agricultural machinery	16.34.1 Performing land surveying 16.34.2 Constructing green houses 16.34.3 Keeping machinery records 16.34.4 Selecting proper machinery

<b>Main Fields</b>	<b>Occupations</b>	<b>Main competences</b>	<b>Specific competences</b>
		16.35 Maintaining renewable energy resources	16.35.1 Performing maintenance of wind mills 16.35.2 Servicing solar energy components 16.35.3 Constructing biogas production system
		16.36 Managing agro-mechanics workshop	16.36.1 Designing farm workshop layout 16.36.2 Controlling agricultural tools and equipment 16.36.3 Estimating material and labour cost 16.36.4 Training sub-ordinates on the job 16.36.5 Preparing reports 16.36.6 Managing agricultural workshop business
		16.37 Project	16.37.1 Project
Electronics and Computer	17.0 Computer Programming	17.1 Implementing computer applications	17.1.1 Maintaining computer hardware components 17.1.2 Managing word processing 17.1.3 Managing spreadsheet and data presentation
		17.2 Basics of computer programming	17.2.1 Designing of computer programs 17.2.2 Implementing control structures in programming 17.2.3 Implementing functions 17.2.4 Implementing arrays in a program
		17.3 Designing and hosting websites	17.3.1 Creating web pages using HTML 17.3.2 Formatting web pages with Cascading Style Sheets (CSS) 17.3.3 Implementing web scripting

Main Fields	Occupations	Main Competence	Specific competence
			17.3.4 Hosting and publishing websites 17.3.5 Designing websites using content management systems
		17.4 Developing database systems	17.4.1 Implementing database modelling and relationships 17.4.2 Implementing physical database structure with structured query language
		17.5 Developing database-driven web applications	17.5.1 Creating PHP programs 17.5.2 Working with forms 17.5.3 Linking forms to databases for interactive web applications
		17.6 System analysis and design	17.6.1 Identifying and analysing software development requirements 17.6.2 Building structures of the software
		17.7 Web programming frameworks	17.7.1 Identifying and setting up a web development environment 17.7.2 Building the front-end using a framework 17.7.3 Building the back-end using a framework
		17.8 Basics of Object-Oriented Programming	17.8.1 Creating basic programs using classes and objects 17.8.2 Creating programs with inheritance and method overriding 17.8.3 Implementing encapsulation and abstraction

Main Fields	Occupations	Main Competence	Specific competence
			17.8.4 Implementing polymorphism with interfaces and abstract classes
		17.9 Event-Driven Programming	17.9.1 Working with IDE and event-driven language 17.9.2 Developing programs using functions and arrays 17.9.3 Designing form with menus controls 17.9.4 Creating database connectivity options and reporting
		17.10 Mobile Application Development	17.10.1 Working with mobile apps and development platforms 17.10.2 Handling user input and basic interactions 17.10.3 Working with data and multimedia 17.10.4 Optimising and deploying mobile apps
		17.11 Integrating Cybersecurity Measures into Applications	17.11.1 Identifying and controlling cybersecurity threats 17.11.2 Practising safe programming practices 17.11.3 Encrypting and decrypting data 17.11.4 Handling sensitive information in programming
		17.12 Integrating programming with data science	17.12.1 Creating basic programs 17.12.2 Collecting and storing data 17.12.3 Cleaning and organising data 17.12.4 Analysing data 17.12.5 Visualising data

Main Fields	Occupations	Main Competence	Specific competence
	18.0 Graphic Design	18.1 Maintaining safety of studio and working environment	18.1.1 Maintaining studio safety 18.1.2 Handling hazards 18.1.3 Handling fire accidents 18.1.4 Performing first aid
		18.2 Performing basic graphic design	18.2.1 Performing colour theory 18.2.2 Performing typography 18.2.3 Managing principles of graphic design 18.2.4 Elements of graphic design 18.2.5 Performing digital image editing 18.2.6 Creating basic graphic design
		18.3 Performing digital illustration	18.3.1 Performing digital illustrations pre-production 18.3.2 Producing digital illustrations 18.3.3 Performing digital illustrations post-production
		18.4 Creating designs for graphic design communication	18.4.1 Creating basic designs for graphic design communication 18.4.2 Creating layout and composition 18.4.3 Creating presentation for graphic design communication
		18.5 Designing a product package	18.5.1 Designing product package 18.5.2 Performing packaging visual elements 18.5.3 Preparing packaging presentation

<b>Main Fields</b>	<b>Occupations</b>	<b>Modules (Main Competence)</b>	<b>Units (Specific competences)</b>
		18.6 Performing web design and mobile user interface (UI) and user experience (UX)	18.6.1 Performing basics of web design 18.6.2 Performing engaging and mobile user experiences 18.6.3 Performing web and mobile design project presentations
		18.7 Performing motion graphics	18.7.1 Performing principles of motion graphics 18.7.2 Performing basic motion graphics 18.7.3 Performing engaging motion graphics 18.7.4 Creating animated infographics 18.7.5 Performing audio and sound design 18.7.6 Presenting motion graphics projects
		18.8 Managing a safe work environment	18.8.1 Managing hazards 18.8.2 Carrying out risk assessment 18.8.3 Managing the environment
		18.9 Managing preventive maintenance	18.9.1 Planning preventive maintenance 18.9.2 Supervising preventive maintenance
		18.10 Managing branding and production	18.10.1 Establishing a small-scale enterprise 18.10.2 Performing cost estimates 18.10.3 Supervising staff 18.10.4 Performing branding and business marketing strategies 18.10.5 Carryout quality control
		18.11 Creating graphic design projects	18.11.1 Creating project planning 18.11.2 Creating final graphic design projects 18.11.3 Displaying final graphic design projects

Main Fields	Occupations	Modules (Main Competence)	Units (Specific competences)
	19.0 Electronics Repair	19.1 Maintaining safety of workshop and surroundings	19.1.1 Maintaining workshop safety 19.1.2 Handling accidents and incidents 19.1.3 Handling fire accidents 19.1.4 Perform First Aid
		19.2 Perform preventive maintenance of tools, equipment and machines	19.2.1 Performing preventive maintenance of electrical tools 19.2.2 Performing preventive maintenance of electrical equipment 19.2.3 Maintaining machine
		19.3 Performing bench work	19.3.1 Performing cutting 19.3.2 Performing filing 19.3.3 Performing drilling 19.3.4 Performing riveting 19.3.5 Performing threading 19.3.6 Performing metal forming
		19.4 Performing electrical joints.	19.4.1 Performing cold electrical joints. 19.4.2 Performing soldering
		19.5 Building simple electric circuits	19.5.1 Constructing resistive circuits 19.5.2 Constructing capacitive circuits 19.5.3 Constructing inductive circuits 19.5.4 Constructing resistor inductor and capacitor (RLC) circuits 1.5.5 Measuring electric quantities
		19.6 Building simple electronic circuits	19.6.1 Determining characteristics of active electronic devices 19.6.2 Building rectifier circuits

Main Fields	Occupations	Modules (Main Competence)	Units (Specific competences)
			19.6.3 Servicing batteries 19.6.4 Constructing low/high frequency circuits 19.6.5 Troubleshooting analogue electronic circuits
		19.7 Operating test equipment	19.7.1 Using signal generator 19.7.2 Using frequency meter 19.7.3 Using of oscilloscope
		19.8 Servicing audio equipment	19.8.1 Servicing AM and FM radio receiver 19.8.2 Troubleshooting tape recorder, compact disc and record player 19.8.3 Servicing public address (PA) and music systems
		19.9 Testing digital electronic systems	19.9.1 Constructing simple digital circuit 19.9.2 Measuring parameters of digital circuits 19.9.3 Determining responses of logic gate
		19.10 Servicing video equipment	19.10.1 Servicing television receivers 19.10.2 Installing television receiver antennas 19.10.3 Servicing video cassette recorders (VCRs) 19.10.4 Servicing video cameras 19.10.5 Servicing video compact disc (VCD) and digital video disc (DVD) 19.10.6 Installing closed circuit television systems 19.10.7 Service smart TV

Main Fields	Occupations	Modules (Main Competence)	Units (Specific competences)
		19.11 Building IC circuits	19.11.1 Constructing operational amplifier circuits 19.11.2 Constructing integrated amplifier circuits
		19.12 Perform basic maintenance of mobile phone	19.12.1 Carryout basic diagnosis of mobile phone 19.12.2 Performing basic mobile phone troubleshooting
		19.13 Servicing personal computers	19.13.1 Operating personal computers 19.13.2 Servicing computer hardware 19.13.3 Installing computer peripherals 19.13.4 Installing software
		19.14 Servicing data communication systems	19.14.1 Installing Voice, Fax Data Modems 19.14.2 Troubleshooting Data Communication Equipment
		19.15 Servicing power back up equipment	19.15.1 Installing uninterruptible power supply ups 19.15.2 Installing solar cell modules 19.15.3 Servicing storage batteries
		19.16 Managing workshop activities	19.16.1 Designing workshop layout 19.16.2 Controlling tools and equipment 19.16.3 Estimating materials and labour cost 19.16.4 Training subordinates 19.16.5 Preparing reports 19.16.6 Manage workshop business

<b>Main Fields</b>	<b>Occupations</b>	<b>Modules (Main Competence)</b>	<b>Units (Specific competences)</b>
		19.17 Managing safe work environment	19.17.1 Managing hazards 19.17.2 Carrying out risk assessment 19.17.3 Managing environment
		19.18 Managing preventive maintenance	19.18.1 Planning preventive maintenance 19.18.2 Supervising preventive maintenance
	21.0 Designing, Sewing and Cloth Technology	21.1 Maintaining safety of the workshop and surroundings	21.1.1 Maintaining workshop safety 21.1.2 Handling accidents and incidents 21.1.3 Handling fire accidents 21.1.4 Performing First Aid
		21.2 Performing preventive maintenance of tools, machines and equipment	21.2.1 Conducting preventive maintenance of work tools 21.2.2 Conducting preventive maintenance on equipment 21.2.3 Conducting corrective maintenance on work area 21.2.4 Conducting corrective maintenance on equipment
		21.3 Performing basic sewing	21.3.1 Making stitches 21.3.2 Performing fabric identification for making garment 21.3.3 Making casual garments using readymade and commercial patterns

<b>Main Fields</b>	<b>Occupations</b>	<b>Modules (Main Competence)</b>	<b>Units (Specific competences)</b>
		21.4 Creating basic accessories	21.4.1 Performing basic surface design 21.4.2 Making colour combinations for basic worn cloth accessories 21.4.3 Gathering material for making basic cloth accessories 21.4.4 Creating simple, stylish cloth accessories
		21.5 Applying craft on garments	21.5.1 Performing fabric decoration 21.5.2 Making decorations by using different trims
		21.6 Applying embroidery on garments	21.6.1 Designing embroidery patterns 21.6.2 Performing hand/ machine embroidery 21.6.3 Making appliqué Designing fashion cloth
		21.7 Performing basic fashion design	21.7.1 Designing fashion cloth
		21.8 Performing cloth fashion design	21.8.1 Designing office, leisure, and african wears 21.8.2 Conducting technical measurements and interpretation in garment pattern 21.8.3 Making patterns 21.8.4 Drafting basic traditional blocks patterns. 21.8.5 Performing basic block patterns adaptations

<b>Main Fields</b>	<b>Occupations</b>	<b>Modules (Main Competence)</b>	<b>Units (Specific competences)</b>
		21.9 Making specialised garments	21.9.1 Making office wear 21.9.2 Making sports wears 21.9.3 Making beach wears
		21.10 Making African wears	21.10.1 Making African costumes 21.10.2 Making Tanzanian costumes
		21.11 Applying digital computerised embroidery	21.11.1 Developing embroidery artwork by cad 21.11.2 Digitizing embroidery artwork by using CAD 21.11.3 Making embroidery by using CAM
		21.12 Performing exterior /interior decoration	21.12.1 Making exterior/ interior decoration 21.12.2 Applying different materials in exterior/ interior decoration
		21.13 Managing safe work environment	21.13.1 Caring out risk assessment 21.13.2 Managing environment 21.13.3 Planning preventive maintenance
		21.14 Managing preventive maintenance	21.14.1 Supervising preventive maintenance 21.14.2 Supervising corrective maintenance
		21.15 Performing fashion designing	21.15.1 Designing cloth fashion styles 21.15.2 Designing fashion styles accessories 21.15.3 Applying advanced colour combinations

<b>Main Fields</b>	<b>Occupations</b>	<b>Modules (Main Competence)</b>	<b>Units (Specific competences)</b>
		21.16 Making special outfits	21.16.1 Designing and making pattern for special occasions 21.16.2 Conducting fashion shows
		21.17 Applying clothing technology	21.17.1 Making batik materials 21.17.2 Making tie & dye materials 21.17.3 Making prints on materials 21.17.4 Making fabric painting
		21.18 Making interior design	21.18.1 Making advanced colour scheme 21.18.2 Making interior products
		21.19 Managing production	21.19.1 Establishing a small-scale enterprise 21.19.2 Supervising staff 21.19.3 Performing cost estimates 21.19.4 Performing marketing and advertising 21.19.5 Conducting quality control

Main Fields	Occupations	Modules (Main Competence)	Units (Specific competences)
	22.0 Leather goods and footwear	22.1 Maintaining safety of workshop and surroundings	22.1.1 Maintaining workshop safety 22.1.2 Handling accidents and incidents. 22.1.3 Handling fire accidents 22.1.4 Performing first aid
		22.2 Performing maintenance	22.2.1 Performing preventive maintenance of tools (Conducting preventive maintenance of working tools) 22.2.2 Carrying out corrective maintenance of work tools 22.2.3 Maintaining of cutting and sewing machines 22.2.4 Performing safe operation of workshop machines
		22.3 Making simple leather goods and footwear	22.3.1 Cutting out materials using ready-made patterns 22.3.2 Performing raw edge finishing of leather 22.3.3 Making stitches 22.3.4 Making seams 22.3.5 Performing simple stitching 22.3.6 Attaching fittings and accessories
		22.4 Designing simple leather goods and footwear	22.4.1 Making simple designs of footwear 22.4.2 Making simple designs of leather goods
		22.5 Making intermediate leather goods and footwear	22.5.1 Designing intermediate patterns for leather goods projects 22.5.2 Designing intermediate patterns for footwear projects
		22.6 Making intermediate leather goods and footwear	22.6.1 Making intermediate leather goods 22.6.2 Making intermediate footwear projects
		22.7 Performing maintenance	22.7.1 Conducting corrective maintenance of cutting machines 22.7.2 Correcting maintenance of sewing machines 22.7.3 Conducting corrective maintenance of lasting machines

Main Fields	Occupations	Modules (Main Competence)	Units (Specific competences)
		22.8 Making leather garments	22.8.1 Making leather jackets 22.8.2 Making leather skirts and trousers
		22.9 Performing hand crafting of leather goods	22.9.1 Burnishing leather 22.9.2 Stamping and decorating 22.9.3 Lacing and saddle stitching 22.9.4 Making belts 22.9.5 Performing finishing
		22.10 Performing rural leather tanning	22.10.1 Preserving raw hides and skins 22.10.2 Dehairing raw hides and skin 22.10.3 Performing vegetable tanning 22.10.4 Atliquoring of leather 22.10.5 Drying and dressing 22.10.6 Performing leather surface finishing
		22.11 Designing advanced leather goods and footwear	22.11.1 Designing and making patterns for advanced footwear 22.11.2 Designing and making patterns for advanced leather goods
		22.12 Managing safe work environment	22.12.1 Managing hazards 22.12.2 Carrying out risk assessment 22.12.3 Managing environmental
		22.13 Managing maintenance	22.13.1 Planning preventive maintenance 22.13.2 Supervising corrective and preventive maintenance
		22.14 Making advanced leather goods	22.14.1 Making advanced footwear 22.14.2 Making special advanced leather goods
		22.15 Managing leather goods and footwear workshop	22.15.1 Initiating a workshop 22.15.2 Managing stocks (Determining workshop requirements)
		22.16 Managing production	22.16.1 Establishing a small-scale leather goods and footwear enterprise 22.16.2 Performing staff supervision 22.16.3 Performing cost and estimating 22.16.4 Marketing and advertisement 22.16.5 Performing quality control

Main Fields	Occupations	Modules (Main Competence)	Units (Specific competences)
Agriculture and Food Processing	23.0 Meat Processing Technology	23.1 Maintaining meat processing facility hygiene, safety and environment	23.1.1 Maintaining safety in meat processing facility 23.1.2 Handling fire in meat processing facility 23.1.3 Maintaining hygiene of meat processing facility 23.1.4 Maintaining meat processing tools and equipment 23.1.5 Maintaining meat processing equipment / machines 23.1.6 Maintaining meat processing facility infrastructure 23.1.7 Maintaining environment
		23.2 Practicing Personal safety and hygiene	23.2.1 Maintaining personal safety and hygiene 23.2.2 Performing first aid
		23.3 Operating meat processing facility and machines	23.3.1 Operating stunning equipment 23.3.2 Operating slaughter hall equipment 23.3.3 Operating dressing equipment 23.3.4 Operating meat cutting machines 23.3.5 Operating meat tenderizing machines 23.3.6 Operating meat blenders 23.3.7 Operating meat packaging machines
		23.4 Maintaining quality of slaughter animals	23.4.1 Classifying slaughter animals 23.4.2 Categorizing and grading live animals 23.4.3 Transporting slaughter animals 23.4.4 Managing slaughter animals in a holding ground and lairage

Main Fields	Occupations	Modules (Main Competence)	Units (Specific competences)
		23.5 Slaughtering of food animals	23.5.1 Stunning and exsanguination slaughter animals 23.5.2 Dressing bled animals 23.5.3 Handling of meat passed for human consumption 23.5.4 Handling conditional passed meat for human consumption 23.5.5 Handling condemned materials
		23.6 Performing preventive maintenance of meat processing facilities, tools, equipment and machines	23.6.1 Performing preventive maintenance of meat processing facility 23.6.2 Performing preventive maintenance of meat processing tools 23.6.3 Performing preventive maintenance of skinning/flaying equipment and machines 23.6.4 Performing preventive maintenance of cutlets and meat products making equipment 23.6.5 Performing preventive maintenance of cold room facilities and maintaining inventory
		23.7 Performing basic meat classification	23.7.1 Performing meat classification according to type 23.7.2 Performing classification of meat according to source 23.7.3 Performing classification of meat according to grades
		23.8 Processing slaughter by-products and maintaining cold chain	23.8.1 Processing of edible by-products 23.8.2 Curing and preserving inedible by-products 23.8.3 Maintaining cold chain for meat and meat products

Main Fields	Occupations	Modules (Main Competence)	Units (Specific competences)
		23.9 Producing meat cutlets and meat products	23.9.1 Making meat cuts 23.9.2 Making sausages 23.9.3 Making other meat products
		23.10 Fattening slaughter stock	23.10.1 Planning layout of feedlot facility 23.10.2 Managing feedlot
		23.11 Marketing meat and meat products	23.11.1 Controlling quality of meat and meat products 23.11.2 Packing of meat and meat products 23.11.3 Pricing and costing meat and meat products 23.11.4 Trading meat and meat products 23.11.5 Preparing project proposals
		23.12 Managing meat processing facility and retailing	23.12.1 Establishing operational duties and manpower administration 23.12.2 Performing meat processing plant operations 23.12.3 Procuring supplies
	24.0 Animal Health and Production	24.1 Maintaining Safety of Farm Infrastructures and Surroundings	24.1.1 Administrating of Farm Occupational Health And Safety 24.1.2 Managing Farm Accidents and Incidents 24.1.3 Maintaining Farm Surroundings 24.1.4 Performing First Aid in Farm
		24.2 Rearing Poultry	24.2.1 Rearing Chicken 24.2.2 Rearing of ducks 24.2.3 Rearing other domestic poultry species
		24.3 Rearing of domestic Animals	24.3.1 Rearing of ruminant 24.3.2 Rearing of non-ruminant 24.3.3 Rearing of working animals
		24.4 Performing apiculture	24.4.1 Managing bee hive and apiary 24.4.2 Processing bee products

<b>Main Fields</b>	<b>Occupations</b>	<b>Modules (Main Competence)</b>	<b>Units (Specific competences)</b>
		24.5 Performing Fish farming	24.5.1 Performing fish pond farming 24.5.2 Perform Smart Technologies Fish Farming 24.5.3 Performing Lake Fish Farming 24.5.4 Performing Marine Farming 24.5.5 Harvesting and Preserve Fish 24.5.6 Controlling Quality of Fish
		24.6 Designing and Construction Farm Infrastructures	24.6.1 Preparing Layout of Infrastructures for New Livestock Farm 24.6.2 Constructing Livestock Farm Structures 24.6.3 Fabricating Farm Equipment 24.6.4 Designing Layout for Livestock Markets and Processing Facilities:
		24.7 Feeding Livestock and Fish	24.7.1 Improving Rangeland 24.7.2 Cultivating Pastures 24.7.3 Conserving Pastures and Crop Residues 24.7.4 Preparing Animal and Fish Feeds
		24.8 Processing Livestock and Utilize Livestock Products	24.8.1 Processing Milk 24.8.2 Preparing Carcasses 24.8.3 Processing Inedible Slaughter by Products 24.8.4 Processing Meat and Edible Slaughter by Products
		24.9 Controlling Quality of Farm Products.	24.9.1 Controlling Quality of Livestock 24.9.2 Controlling Quality of Livestock Products 24.9.3 Controlling Quality of Hides and Skins
		24.10 Performing Breeding of Livestock	24.10.1 Managing Breeding Stock 24.10.2 Maintaining Hatchery

Main Fields	Occupations	Modules (Main Competence)	Units (Specific competences)
		24.11 Managing Livestock Disease	24.11.1 Performing Tentative Diagnosis of Livestock Diseases 24.11.2 Nursing Diseased Livestock 24.11.3 Performing Prevention and Control of Livestock Diseases
		24.12 Managing Farm Production Activities	24.12.1 Performing Herd Management Practice 24.12.2 Managing Various Farm Records 24.12.3 Managing Farm Business 24.12.4 Preparing Farm Project Proposal
	25.0 Horticultural production	25.1 Maintaining safety of workshop and surroundings	25.1.1 Maintaining workshop safety 25.1.2 Handling accidents and incidents 25.1.3 Handling fire accidents 25.1.4 Performing First Aid
		25.2 Performing preventive maintenance of tools, machines and equipment	25.2.1 Conducting preventive maintenance of farm tools 25.2.2 Conducting preventive maintenance of farm machines and equipment
		25.3 Performing land preparation	25.3.1 Conducting investigation for new farm 25.3.2 Conducting soil analysis 25.3.3 Performing land clearing 25.3.4 Performing land tillage
		25.4 Sowing, planting and transplanting	25.4.1 Selecting good quality seeds 25.4.2 Selecting good quality planting materials 25.4.3 Performing seed sowing 25.4.4 Performing planting of vegetative materials

<b>Main Fields</b>	<b>Occupations</b>	<b>Modules (Main Competence)</b>	<b>Units (Specific competences)</b>
		25.5 Managing ornamental gardens	25.5.1 Designing landscape 25.5.2 Establishing ornamental garden
		25.6 Managing soil fertility	25.6.1 Preparing organic fertilizers 25.6.2 Applying the fertilizer
		25.7 Harvesting of horticultural crops	25.7.1 Estimating yield of given crop 25.7.2 Performing harvesting of horticultural crops
		25.8 Managing water for horticultural crops	25.8.1 Harvesting water for irrigation 25.8.2 Performing irrigation
		25.9 Transplanting seedling	25.9.1 Performing transplanting of seedlings 25.9.2 Performing pruning and training
		25.10 Controlling pests	25.10.1 Controlling weeds 25.10.2 Control insect pests 25.10.3 Controlling crop diseases 25.10.4 Controlling vertebrate (vermin) pest
		25.11 Managing farm inputs	25.11.1 Preparing farm input 25.11.2 Managing storage of farm inputs
		25.12 Performing post-harvest activities	25.12.1 Handling harvested horticultural crops 25.12.2 Performing post-harvest treatments 25.12.3 Storing different horticultural crops
		25.13 Performing processing of horticulture crops	25.13.1 Processing different horticultural crops 25.13.2 Performing packaging of horticultural products 25.13.3 Marketing of horticultural products
		25.14 Managing farm activities	25.14.1 Managing farm practices 25.14.2 Managing various farm records 25.14.3 Managing farm business

Main Fields	Occupations	Modules (Main Competence)	Units (Specific competences)
		25.15 Managing farm resources	25.15.1 Managing human resources 25.15.2 Managing physical resources 25.15.3 Manage financial resources
		25.16 Managing farm environment	25.16.1 Managing soil erosion 25.16.2 Conserving soil water 25.16.3 Handling waste
	26.0 Field crop production	26.1 Maintaining safety in the workshop and surrounding	26.1.1 Maintaining workshop safety 26.1.2 Handling accidents and incidents 26.1.3 Handling fire accidents 26.1.4 Performing First Aid
		26.2 Preparing land for field crops production	26.2.1 Conducting investigation for new farm 26.2.2 Conducting soil analysis 26.2.3 Performing land clearance 26.2.4 Performing Land tillage
		26.3 Applying fertilizers	26.3.1 Preparing organic fertilizer 26.3.2 Applying fertilizers to the plant
		26.4 Sowing and planting field crops	26.4.1 Selecting quality seeds 26.4.2 Selecting quality planting materials 26.4.3 Performing seed sowing 26.4.4 Performing planting of crop materials
		26.5 Controlling pests	26.5.1 Controlling weeds 26.5.2 Controlling diseases 26.5.3 Controlling insect pests 26.5.4 Controlling vertebrate pests
		26.6 Managing water for field crops	26.6.1 Harvesting water 26.6.2 Performing irrigation
		26.7 Harvesting field crops	26.7.1 Determining maturity indices of various field crops 26.7.2 Estimating crop yield 26.7.3 Harvesting different field crops

Main Fields	Occupations	Modules (Main Competence)	Units (Specific competences)
		26.8 Performing post-harvest activities	26.8.1 Handling harvested field crops 26.8.2 Performing Post-harvest treatments 26.8.3 Storing field crops
		26.9 Managing farm activities	26.9.1 Maintaining various farm records 26.9.2 Preparing farm project proposal 26.9.3 Managing farm business
		26.10 Processing field crops	26.10.1 Processing leguminous crops 26.10.2 Processing cereal crops 26.10.3 Processing roots and tuber crops 26.10.4 Processing oil crops 26.10.5 Processing fiber crops 26.10.6 Processing beverage crops
		26.11 Packing and marketing processed field crops	26.11.1 Conducting market research 26.11.2 Preparing packaging material 26.11.3 Conducting storage of packed products
		26.12 Managing farm environment	26.12.1 Performing environmental conservation in farm area 26.12.2 Performing waste management 26.12.3 Managing soil erosion
	27.0 Wood Processing	27.1 Maintaining safety and hygiene in wood processing	27.1.1 Maintaining Safety in Logging and Sawmill 27.1.2 Handling Fire Accidents and Incidents 27.1.3 Performing First Aid
		27.2 Execute Forest Harvesting	27.2.1 Executing Forest Harvesting 27.2.2 Felling Trees, De-Limbing Felled Trees and Cross Cutting Tree Trunks 27.2.3 Transporting logs

		27.3 Performing Timber yard operations	27.3.1 Sorting and Stacking Timber 27.3.2 Controlling timber movement
		27.4 Preparing wood for treatment	27.4.1 Receiving timber and poles for treatment 27.4.2 Preparing poles and sawn timber for treatment 27.4.3 Determining wood defects
		27.5 Performing wood treatment	27.5.1 Preparing preservative solutions 27.5.2 Operating treatment plant 27.5.3 Performing post-treatment operations
		27.6 Maintaining saws	27.6.1 Servicing saw blades 27.6.2 Repairing saw blades 27.6.3 Performing teeth geometry 27.6.4 Packing saw blade
		27.7 Sawing logs	27.7.1 Sorting logs 27.7.2 Producing sawn timber
		27.8 Utilizing wood by-products	27.8.1 Processing wood by-products
		27.9 Managing a safe work environment	27.9.1 Managing hazards 27.9.2 Carrying out risk assessment 27.9.3 Managing environmental pollution 27.9.4 Managing fire accidents
		27.10 Managing preventive maintenance	27.10.1 Planning preventive maintenance duration 27.10.2 Supervising preventive maintenance
		27.11 Managing wood processing industry activities	27.11.1 Planning wood processing activities 27.11.2 Establishing operational duties and manpower administration 27.11.3 Planning wood processing workshop layout 27.11.4 Performing wood processing operations

<b>Main Fields</b>	<b>Occupations</b>	<b>Modules (Main Competence)</b>	<b>Units (Specific competences)</b>
Tourism	28.0 Front office operations	28.1 Maintaining a safe, healthy and secure working environment	28.1.1 Applying personal grooming and hygiene 28.1.2 Controlling hazards 28.1.3 Dealing with accidents and fire 28.1.4 Administering first aid
		28.2 Exercising customer care	28.2.1 Handling customer care 28.2.2 Handling complaints 28.2.3 Handling special requests
		28.3 Operating switchboard	28.3.1 Making telephone calls 28.3.2 Receive telephone calls 28.3.3 Recording and charging telephone calls
		28.4 Performing reservation activities	28.4.1 Receiving and recording reservations 28.4.2 Performing reservation maintenance activities
		28.5 Providing basic food and beverage services	28.5.1 Preparing restaurant for service 28.5.2 Taking food and beverage orders 28.5.3 Serving food 28.5.4 Serving beverages
		28.6 Performing front desk activities	28.6.1 Handling check-in activities 28.6.2 Handling check-out activities 28.6.3 Controlling hotel revenue 28.6.4 Computing forex
		28.7 Coordinating guest services	28.7.1 Handling information services 28.7.2 Handling business center activities
		28.8 Preparing and cleaning guest rooms	28.8.1 Cleaning guest rooms 28.8.2 Restocking guest rooms supplies and amenities 28.8.3 Updating room status and discrepancy report

<b>Main Fields</b>	<b>Occupations</b>	<b>Modules (Main Competence)</b>	<b>Units (Specific competences)</b>
		28.9 Handling guest relations activities	28.9.1 Handling guest special requests 28.9.2 Handling lobby activities
		28.10 Performing night auditing	28.10.1 Handling departmental sales from outlets 28.10.2 Handling night manager activities 28.10.3 Producing management report
		28.11 Controlling front office budget, costs and requisitioning	28.11.1 Controlling front office budget 28.11.2 Collecting daily revenue data 28.11.3 Initiating daily requisitioning
		28.12 Supervising front office operations	28.12.1 Planning and organizing duties 28.12.2 Controlling tools and equipments 28.12.3 Computing occupancy statistics 28.12.4 Conducting on job training
	29.0 House-keeping and Laundry	29.1 Maintaining a safe, healthy and secure working environment.	29.1.1 Applying personal grooming and hygiene 29.1.2 Controlling hazards 29.1.3 Dealing with accidents and fire 29.1.4 Administering First Aid
		29.2 Exercising customer care	29.2.1 Handling customer care 29.2.2 Handling complaint 29.2.3 Handling guest special request.
		29.3 Washing hotel linen, guest laundries and staff uniforms	29.3.1 Washing hotel linen 29.3.2 Washing guest laundries 29.3.3 Washing staff uniforms 29.3.4 Performing dry-cleaning
		29.4 Preparing and cleaning guest rooms	29.4.1 Cleaning guestroom 29.4.2 Restocking guestroom supplies and amenities 29.4.3 Updating room status and discrepancy report

		29.5 Providing basic food and beverage services	29.5.1 Preparing restaurant for service 29.5.2 Taking food and beverage orders 29.5.3 Serving food 29.5.4 Serving beverages
		29.6 Maintaining public and function areas	29.6.1 Preparing and cleaning function areas 29.6.2 Preparing and cleaning public areas
		29.7 Managing gardens and landscape	29.7.1 Maintaining garden 29.7.2 Establishing tree nursery
		29.8 Arranging interior decoration	29.8.1 Arranging flowers 29.8.2 Arranging indoor plants
		29.9 Maintaining furniture, fixture and fabric.	29.9.1 Up-keeping furniture, fixtures and fabrics 29.9.2 Reporting faults in furniture, fixtures and fabrics
		29.10 Controlling energy and environment management	29.10.1 Maintaining energy usage 29.10.2 Maintaining environment
		29.11 Controlling housekeeping budget, costs and requisitions	29.11.1 Controlling housekeeping budget 29.11.2 Initiating daily requisitions 29.11.3 Collecting daily revenue data
		29.12 Supervising housekeeping operations	29.12.1 Planning and organizing duties 29.12.2 Controlling tools and equipment 29.12.3 Computing occupancy statistics 29.12.4 Conducting on-job training

<b>Main Fields</b>	<b>Occupations</b>	<b>Main Competence</b>	<b>Specific competences</b>
	30.0 Food Production	30.1 Maintaining a safe and healthy working environment	30.1.1 Maintaining professional and hygienic appearance 30.1.2 Controlling kitchen and restaurant hazards 30.1.3 Handling emergencies and injuries 30.1.4 Administering first aid 30.1.5 Handling kitchen and restaurant sanitation
		30.2 Perform Cooking food	30.2.1 Using moist heat methods of cooking 30.2.2 Using dry heat method of cooking
		30.3 Preparing and cooking breakfast dishes	30.3.1 Preparing And Making Beverages for Breakfast 30.3.2 Preparing Cold Items for Breakfast 30.3.3 Preparing And Cooking Hot Items for Breakfast
		30.4 Providing basic food and beverage service	30.4.1 Preparing restaurant for service 30.4.2 Handling complaints 30.4.3 Handling special requests 30.4.4 Taking food and beverages orders
		30.5 Preparing and cooking stocks, soups and sauces	30.5.1 Preparing and cooking stocks 30.5.2 Preparing and cooking soups 30.5.3 Preparing and cooking basic sauces, gravies and miscellaneous sauces
		30.6 Preparing and cooking vegetables, pulses and vegetarian dishes	30.6.1 Preparing and cooking vegetable dishes 30.6.2 Preparing and cooking pulse dishes 30.6.3 Preparing and cooking vegetarian dishes

Main Fields	Occupations	Main Competence	Specific competences
		30.7 Preparing and cooking tanzania local dishes	30.7.1 Preparing and cooking local soups 30.7.2 Preparing and cooking local vegetable dishes and salads 30.7.3 Preparing and cooking local meat, chicken and fish dishes 30.7.4 Preparing and cooking local farinaceous dishes 30.7.5 Preparing and cooking local bites
		30.8 Preparing and cooking pasta and rice dishes	30.8.1 Preparing and cooking fresh and dried pastas dishes 30.8.2 Preparing and cooking rice dishes

Main Fields	Occupations	Main Competence	Specific competences
		30.9 Preparing and cooking meat and poultry dishes	30.9.1 Preparing and cooking meat dishes 30.9.2 Preparing and cooking poultry dishes
		30.10 Preparing and cooking fish and shell fish	30.10.1 Preparing and cooking fish dishes 30.10.2 Preparing and cooking shell fish dishes
		30.11 Preparing salads, hors d'oeuvres, canapes and sandwiches	30.11.1 Preparing salads and salad dressings 30.11.2 Preparing hors-d'oeuvres 30.11.3 Preparing canapés 30.11.4 Preparing sandwiches
		30.12 Preparing and cooking bakery and pastry products	30.12.1 Preparing and cooking yeast dough products 30.12.2 Preparing and cooking pastry products 30.12.3 Preparing and cooking desserts
		30.13 Arranging buffet and preparing foods in the restaurant	30.13.1 Preparing and maintaining buffet tables 30.13.2 Cooking, carving and serving dishes in the restaurant
		30.14 Budgeting and controlling food costs	30.14.1 Planning, designing and writing menu 30.14.2 Storing and controlling food cost 30.14.3 Handling kitchen budget
		30.15 Supervising kitchen operations	30.15.1 Planning and organizing kitchen duties 30.15.2 Controlling kitchen tools and equipment 30.15.3 Conducting on-job training

Main Fields	Occupations	Modules (Main Competence)	Units (Specific competences)
	31.0 Food Beverage Services and Sales	31.1 Maintaining a safe and healthy working environment	31.1.1 Maintaining professional and hygienic appearance. 31.1.2 Handling emergencies and injuries. 31.1.3 Handling hazards in kitchen and restaurant. 31.1.4 Administering first aids. 31.1.5 Handling kitchen and restaurant sanitation.
		31.2 Handling Customer Service	31.2.1 Handling customer service. 31.2.2 . Handling complaints. 31.2.3 Handling guest special requests.
		31.3 Providing food services	31.3.1 Performing mis en place and mis en scene 31.3.2 Serving breakfast dishes. 31.3.3 Serving main dishes. 31.3.4 Serving dessert dishes. 31.3.5 providing room service.
		31.4 Providing beverage services	31.4.1 Taking restaurant reservations. 31.4.2 Serving alcoholic beverages. 31.4.3 Serving non-alcoholic beverages. 31.4.4 Preparing cocktails and mocktails.
		31.5 Providing outside catering services	31.5.1 preparing service equipment, tools and accessories for outside catering. 31.5.2 Laying outside catering area. 31.5.3 Handling outside catering services
		31.6 Preparing and cooking bakery and pastry products	31.6.1 Preparing and cooking yeast dough products. 31.6.2 Preparing and cooking pastry products. 31.6.3 Preparing and cooking desserts.

Main Fields	Occupations	Modules (Main Competence)	Units (Specific competences)
		31.7 Preparing and cooking breakfast dishes	31.7.1 Preparing and making breakfast beverages 31.7.2 Preparing cold items for breakfast. 31.7.3 Preparing and cooking hot items for breakfast
		31.8 Providing banquet services	31.8.1 Preparing services for professional functions. 31.8.2 preparing services for social functions. 31.8.3 Preparing services for state functions.
		31.9 Supervising services of food and beverages	31.9.1 Planning and organizing food and beverage service work flow 31.9.2 Operating bar
		31.10 Budgeting, costing and controlling food and beverage materials	31.10.1 Planning, designing, and writing menu. 31.10.2 Controlling and costing food and beverage materials. 31.10.3 Budgeting of food and beverage materials.

Main Fields	Occupations	Main competences	Specific Competences
	32.0 Tour Guiding	32.1 Maintaining a safe and healthy working environment	32.1.1 Maintaining a professional and hygienic appearance 32.1.2 Handling emergencies and injuries. 32.1.3 Handling hazards in tour guide operations 32.1.4 Managing tourism environment
		32.2 Exercising customer care	32.2.1 Handling Complaints 32.2.2 Handling Special Requests
		32.3 Conducting tours in natural attractions	32.3.1 Interpreting wildlife herbivorous animals 32.3.2 Interpreting wild Carnivorous animals 32.3.3 Interpreting birds and reptiles
		32.4 Preparing and cleaning guest rooms	32.4.1 Cleaning bathrooms 32.4.2 Cleaning guest rooms 32.4.3 Restocking guest supplies and amenities 32.4.4 Preparing room status and discrepancy report
		32.5 Maintaining vehicles and transporting clients	32.5.1 Checking vehicle batteries 32.5.2 Checking vehicle engine lubrication system 32.5.3 Servicing vehicle fuel systems 32.5.4 Replacing car tyres 32.5.5 Repairing vehicle tyres 32.5.6 Driving and transporting clients
		32.6 Providing basic food and beverage services	32.6.1 Setting up tables, side tables and sideboards 32.6.2 Serving basic food and beverages 32.6.3 Consulting for food and beverage services 32.6.4 Preparing service equipment and accessories for outdoor catering 32.6.5 Laying outdoor catering area

Main Fields	Occupations	Main competences	Specific Competences
		32.7 Conducting tours of natural attractions	32.7.1 Interpreting animals 32.7.2 Interpreting plants
		32.8 Organising Tours	32.8.1 Gathering clients information 32.8.2 Investigating destination attraction details 32.8.3 Designing tour programme 32.8.4 Organising accommodation facilities 32.8.5 Organising transport facilities 32.8.6 Organising catering facilities 32.8.7 Organizing recreational activities
		32.9 Conducting marine and beach tour	32.9.1 Organising marine and beach tours 32.9.2 Guiding clients to beaches and marine areas
		32.10 Conducting mountain climbing tour	32.10.1 Handling mountaineering activities, tools and equipment duration 32.10.2 Arranging mountain climbing tour 32.10.3 Guiding clients to mountain
		32.11 Conducting urban tours	32.11.1 Arranging urban tour 32.11.2 Guiding clients to urban attractions
		32.12 Conducting village tour	32.12.1 Guiding clients to village social economic activities 32.12.2 Guiding clients to traditional festival 32.12.3 Guiding clients to traditional cuisine 32.12.4 Guiding clients to traditional dressing activities 32.12.5 Guiding clients to experience traditional customs

Main Fields	Occupations	Main competences	Specific Competences
		32.13 Conducting hunting safari	32.13.1 Planning for hunting safari 32.13.2 Guiding clients to hunting expedition
		32.14 Carrying-out Tour business Operations	32.14.1 Performing administrative activities 32.14.2 Controlling tools and equipment 32.14.3 Designing tour package 32.14.4 Preparing budget 32.14.5 Performing marketing activities 32.14.6 Maintaining business transactions
		32.15 Preparing a Camp	32.15.1 Establishing campsite 32.15.2 Maintaining a campsite 32.15.3 Arranging camping activities
		32.16 Conducting tour in cultural heritage sites	32.16.1 Guiding clients to Museums 32.16.2 Guiding clients to monuments and historical sites 32.16.3 Facilitating positive contact between clients and cultural heritage sites

<b>Main Fields</b>	<b>Occupations</b>	<b>Modules (Main Competences)</b>	<b>Units (Specific competences)</b>
Creative Arts	33.0 Acting	33.1 Maintaining safety of acting working environment	33.1.1 Handling safety in acting working environment 33.1.2 Handling accidents and incidents hazards 33.1.3 Performing first aid
		33.2 Maintaining principles of acting	33.2.1 Performing techniques of acting for stage, radio, television and film 33.2.2 Performing approaches to acting 33.2.3 Performing acting methods
		33.3 Maintaining ethics in acting	33.3.1 Performing character while applying ethical values 33.3.2 Performing mastery of acting while applying ethical values
		33.4 Applying principles of acting for stage play	33.4.1 Staging improvised stage play 33.4.2 Staging scripted stage play
		33.5 Applying principles of acting for radio drama	33.5.1 Voice acting techniques for radio drama 33.5.2 Audio recording techniques for radio drama
		33.6 Applying principles of using camera in film and television drama	33.6.1 Performing basic camera functioning 33.6.2 Performing for shots, camera angles and camera movements
		33.7 Applying principles of acting for film and television drama	33.7.1 Performing acting techniques for film and television drama 33.7.2 Performing processes of acting for film and television drama 33.7.3 Working with director and key production crew

<b>Main Fields</b>	<b>Occupations</b>	<b>Modules (Main Competences)</b>	<b>Units (Specific competences)</b>
		33.8 Applying principles of casting acting talents for film and television drama	33.8.1 Executing the responsibilities of casting director 33.8.2 Promoting acting talents
		33.9 Applying principles of acting for stand-up comedy	33.9.1 Creating content for stand-up comedy 33.9.2 Performing techniques for stand – up comedy
		33.10 Applying principles of assisting in directing actors and actresses	33.10.1 Executing the responsibilities of assistant director during pre-production 33.10.2 Executing the responsibilities of assistant director during production
		33.11 Using ICT to market actor or actress	33.11.1 Using available ICT resources for creation of stage, radio and screen contents 33.11.2 Using social media platforms to distribute stage, radio and screen contents

Main Fields	Occupations	Modules (Main Competence)	Units (Specific competences)
	34.0 Ngoma Performance	34.1 Maintaining safety of Ngoma working environment	34.1.1 Maintaining Ngoma studio and working environment safety 34.1.2 Handling accidents and incidents hazards 34.1.3 Handling fire accidents and perform first aid
		34.2 Maintaining principles of performing ngoma	34.2.1 Performing health specific exercises for ngoma performance 34.2.2 Performing traditional ngoma 34.2.3 Performing songs of traditional Ngoma 34.2.4 Playing drums of traditional Ngoma
		34.3 Performing traditional ngoma	34.3.1 Performing various forms of traditional ngoma to the specific audiences 34.3.2 Performing songs accompanying different forms of traditional ngoma 34.3.3 Performing drumming accompanying different forms of traditional dance
		34.4 Performing Fusion ngoma	34.4.1 Developing fusion ngoma adapted from various sources 34.4.2 Developing a dance-drama
		34.5 Performing traditional ngoma instruments	34.5.1 Preparing traditional Ngoma instruments 34.5.2 Playing drums of traditional Ngoma
		34.6 Maintaining ethics when performing ngoma	34.6.1 Incorporating appropriate ethical values in selected ngoma creation 34.6.2 Applying appropriate ethical values when performing selected ngoma

Main Fields	Occupations	Modules (Main Competence)	Units (Specific competences)
		34.7 Maintaining principles of choreographing ngoma	34.7.1 Performing basic principles of choreographing Ngoma 34.7.2 Practicing roles of the choreographer in Ngoma
		34.8 Marketing ngoma digitally	34.8.1 Using available digital resources for marketing Ngoma 34.8.2 Applying digital platforms
		34.9 Maintaining mastery of principles of performing ngoma	34.9.1 Performing mastery of basic principles and skills of therapeutic Ngoma 34.9.2 Performing patient-specific therapeutic Ngoma 34.9.3 Performing mastery of ethical principles and practices of Ngoma movement therapist
		34.10 Maintaining relations with ngoma performance stakeholders	34.10.1 Maintaining rights and responsibilities of a ngoma practitioner 34.10.2 Performing legal logistics for handling ngoma performance practices

<b>Main Fields</b>	<b>Occupations</b>	<b>Modules (Main Competence)</b>	<b>Units (Specific competences)</b>
	35.0 Music and Sound Technology	35.1 Maintaining music studio and sound reinforcement safety rules and regulations	35.1.1 Maintaining music studio safety and working environment 35.1.2 Mitigating accidents by reducing hazards 35.1.3 Handling fire accidents 35.1.4 Performing first aid
		35.2 Reading and writing music notes	35.2.1 Creating rhythms 35.2.2 Writing music in staff notations 35.2.3 Creating melodies and harmonies
		35.3 Performing music by using MIDI controller	35.3.1 Connecting and configuring MIDI controller and studio equipment 35.3.2 Using MIDI controller to play scales, chords and melodies 35.3.3 Playing simple songs by using virtual instruments
		35.4 Setting sound equipment	35.4.1 Connecting and disconnecting sound equipment 35.4.2 Tuning sound equipment 35.4.3 Conducting sound check
		35.5 Recording various sounds in studio and live recording	35.5.1 Identifying recording software 35.5.2 Recording MIDI and audio tracks (individually) 35.5.3 Recording multi-tracks
		35.6 Performing music editing	35.6.1 Detecting and eliminating unwanted sound 35.6.2 Grouping sounds with similar characteristics
		35.7 Performing sound mixing in the studio	35.7.1 Balancing audio tracks 35.7.2 Processing audio files

Main Fields	Occupations	Modules (Main Competence)	Units (Specific competences)
		35.8 Mixing live sound using digital console	35.8.1 Performing live mixing for stage monitoring and side fills speakers 35.8.2 Performing live mixing for Front-of-House (FoH) speakers 35.8.3 Managing sound reinforcement strategies
		35.9 Managing sound acoustic treatment	35.9.1 Understanding acoustic principles 35.9.2 Designing and implementing acoustic treatment
		35.10 Performing music mastering	35.10.1 Refining overall music 35.10.2 Enhancing stereo image 35.10.3 Rendering final product
		35.11 Archiving musical works	35.11.1 Registering for the National Art Council (BASATA) Membership 35.11.2 Registering music works with the Copyright Society of Tanzania (COSOTA) 35.11.3 Using ICT to market musical works

<b>Main Fields</b>	<b>Occupations</b>	<b>Modules (Main Competence)</b>	<b>Units (Specific competences)</b>
	36.0 Music performance	36.1 Maintaining safety of the workshop and surroundings	36.1.1 Maintaining workshop safety 36.1.2 Handling accidents and incidents 36.1.3 Handling fire accidents 36.1.4 Performing First aid
		36.2 Performing preventive maintenance of musical instruments	36.2.1 Conducting routine inspection and cleaning of musical instruments 36.2.2 Regular repair and replacement of defective musical instruments
		36.3 Reading and writing music	36.3.1 Creating rhythm 36.3.2 Writing music in staff notation 36.3.3 Creating melody and harmony
		36.4 Performing songs	36.4.1 Composing melody 36.4.2 Creating triads
		36.5 Playing rhythm and scales	36.5.1 Practising rhythm 36.5.2 Writing scales
		36.6 Playing musical instruments	36.6.1 Playing local musical instruments 36.6.2 Playing foreign musical instruments
		36.7 Solo, choral singing and ensemble singing	36.7.1 Analyzing vocal production 36.7.2 Singing songs without instrumental accompaniment 36.7.3 Singing songs with instrumental accompaniment

Main Fields	Occupations	Modules (Main Competence)	Units (Specific competences)
		36.8 Understanding music theory and composition	36.8.1 Exploring harmony and chord progressions 36.8.2 Mastering time signatures and rhythms 36.8.3 Analyzing key signatures and tonality 36.8.4 Writing counterpoint
		36.9 Mastering Saxophone Performance	36.9.1 Developing Saxophone Fundamentals 36.9.2 Enhancing Articulation and Dynamics 36.9.3 9.3 Performing Repertoire and Improvising
		36.10 Developing Trumpet Performance Skills	36.10.1 Building Trumpet Basics and Tone 36.10.2 Expanding Range and Flexibility 36.10.3 Performing with Expression
		36.11 Mastering Piano Techniques	36.11.1 Practicing Technical Mastery 36.11.2 Expressing Through Dynamics and Pedaling 36.11.3 Performing Repertoire and Sight-Reading
		36.12 Performing Drum set	36.12.1 Practicing Rhythm and Coordination 36.12.2 Building Dynamics and Groove 36.12.3 Applying Skills to Drum Set Performance
		36.13 Developing Guitar Performance Skills	36.13.1 Practicing Chords and Strumming 36.13.2 Exploring Lead Guitar and Improvisation 36.13.3 Developing finger style and solo performing

<b>Main Fields</b>	<b>Occupations</b>	<b>Modules (Main Competence)</b>	<b>Units (Specific competences)</b>
		36.14 Music Business and Industry	36.14.1 Copyright and Music Law 36.14.2 Marketing and Promotion 36.14.3 Concert and Event Management
		36.15 Managing safe work environment	36.15.1 Managing hazards 36.15.2 Carrying out risk assessment
		36.16 Managing music instruments maintenance workshop	36.16.1 Planning music instruments maintenance workshop
		36.17 Practicing music theory and composition	36.17.1 Mastering time signatures and rhythms 36.17.2 Analyzing pitch in music 36.17.3 Exploring harmony and chord progressions 36.17.4 Analyzing key signatures and tonality 36.17.5 Writing counterpoint
		36.18 Applying performance Skills	36.18.1 Applying stage presence 36.18.2 Planning ensemble communication 36.18.3 Maintaining post music performance
		36.19 Managing music business and industry	36.19.1 Preserving copyright and music Law 36.19.2 Marketing and promotion 36.19.3 Coordinating concert and event management

<b>Main Fields</b>	<b>Occupations</b>	<b>Module (Main Competencies)</b>	<b>Unit (Specific Competencies)</b>
	37.0 Art and Design	37.1 Maintaining Safety of Workshop and working environment	37.1.1 Maintaining Workshop Safety 37.1.2 Handling Hazards 37.1.3 Handling Fire Accidents 37.1.4 Performing First Aid
		37.2 Performing Artistic Drawing	37.2.1 Applying elements of arts 37.2.2 Illustrating principles of art design 37.2.3 Performing perspective in drawing 37.2.4 Conducting Drawing composition 37.2.5 Drawing portrait drawing 37.2.6 Performing experimental drawing
		37.3 Performing Artistic Painting	37.3.1 Performing colours mixing 37.3.2 Performing artistic paintings
		37.4 Performing Visual Lettering	37.4.1 Demonstrating hand lettering 37.4.2 Making brush lettering 37.4.3 Demonstrating decorative lettering
		37.5 Demonstrating Digital visual Arts.	37.5.1 Creating corporate identifications 37.5.2 Creating outdoor advertising 37.5.3 Creating indoor advertisings 37.5.4 Creating package design 37.5.5 Creating car branding
		37.6 Performing Sign Boards	37.6.1 Creating informational signboard 37.6.2 Creating directional signboard 37.6.3 Creating safety signboard 37.6.4 Creating commercial signboards 37.6.5 Creating informational signs for the differently abled

<b>Main Fields</b>	<b>Occupations</b>	<b>Module (Main Competencies)</b>	<b>Unit (Specific Competencies)</b>
		37.7 Performing Handicrafts	37.7.1 Constructing sculpture for different uses 37.7.2 Making paper crafts 37.7.3 Making candles 37.7.4 Making soaps 37.7.5 Making woodcrafts 37.7.6 Making pottery 37.7.7 Making printing on crafts surfaces
		37.8 Performing weaving	37.8.1 Performing basket weaving 37.8.2 Performing mats weaving 37.8.3 Making ornaments
		37.9 Performing Moulding	37.9.1 Performing free hand moulding items 37.9.2 Performing wheel moulding items
		37.10 Performing Beads	37.10.1 Making beads classification 37.10.2 Making nylon monofilament size 37.10.3 Decorating traditional clothes 37.10.4 Making a bag 37.10.5 Making a tablemat
		37.11 Performing recycled waste products.	37.11.1 Making wastepaper product 37.11.2 Making waste plastic product 37.11.3 Producing wood waste products 37.11.4 Making glass waste product
		37.12 Performing carving	37.12.1 Carving kitchen utensils 37.12.2 Carving decoration products
		37.13 Managing safe work environment.	37.13.1 Managing hazards 37.13.2 Carrying out risk assessment 37.13.3 Managing the environment
		37.14 Managing preventive maintenance	37.14.1 Planning preventive maintenance 37.14.2 Supervising preventive maintenance

<b>Main Fields</b>	<b>Occupations</b>	<b>Module (Main Competencies)</b>	<b>Unit (Specific Competencies)</b>
		37.15 Conducting Art Exhibition and Event Planning	37.15.1 Making art curation 37.15.2 Conducting exhibition 37.15.3 Conducting artistic events
		37.16 Performing Crafts Conservation and Restoration.	37.16.1 Conducting crafts conservation 37.16.2 Handling and manipulating fragile materials 37.16.3 Performing structural repair and stabilization
		37.17 Performing Textile Design and Fabric Arts	37.17.1 Making screen printing and surface design 37.17.2 Making dyeing and color mixing: 37.17.3 Performing weaving and loom operation 37.17.4 Making embroidery and needlework: 37.17.5 Making pattern drafting and garment construction:
		37.18 Performing Fiber Arts products.	37.18.1 Making clothing and apparel 37.18.2 Making fiber arts accessories 37.18.3 Making home furnishings 37.18.4 Making knitted and crocheted home decor 37.18.5 Making macramé decor 37.18.6 Making tapestries and rugs
		37.19 Managing Production	37.19.1 Establishing a small-scale enterprise 37.19.2 Supervising staff 37.19.3 Performing cost estimates 37.19.4 Performing Marketing and Advertising 37.19.5 Carryout Quality Control

<b>Main Fields</b>	<b>Occupations</b>	<b>Modules (Main Competence)</b>	<b>Units (Specific competences)</b>
Sports	38.0 Football Performance	38.1 Maintaining health and safety in football	38.1.1 Maintaining health and safety in football 38.1.2 Rendering first aid
		38.2 Performing exercises for physical fitness	38.2.1 Performing exercises for health-related physical fitness 38.2.2 Performing exercises for performance related physical fitness
		38.3 Performing football in accordance to rules	38.3.1 Performing football skills and techniques 38.3.2 Applying football rules 38.3.3 Observing ethics and moral values in football
		38.4 Performing football strategies	38.4.1 Performing offensive principles in football (width, support, improvisation, penetration, mobility and transition) 38.4.2 Performing defensive principles in football (pressure on opponent, depth, communication, concentration, balance and support) 38.4.3 Use psychological skills in football (competitive spirit, resilience, goal-setting, tolerance, imagery, aggressiveness, courage and motivation)

Main Fields	Occupations	Modules (Main Competence)	Units (Specific competences)
		38.5 Performing systems of playing football	38.5.1 Performing players' positions (goalkeeping, defence, midfield and attack) 38.5.2 Performing roles and responsibilities of players' position 38.5.3 Analysing formations of play in football 38.5.4 Using ICT for football performance
		38.6 Demonstrating mastery of playing football	38.6.1 Demonstrating mastery of position-specific skills in football 38.6.2 Playing intramural and inter-mural football matches

Main Fields	Occupations	Modules (Main Competence)	Units (Specific competences)
	39.0 Netball Performance	39.1 Maintain health and safety in netball	39.1.1 Maintain health in netball 39.1.2 Maintain safety in netball 39.1.3 Prevent and manage injuries in netball
		39.2 Perform exercises for physical fitness	39.2.1 Perform exercises for healthy- related physical fitness 39.2.2 Perform exercises for performance-related physical fitness
		39.3 Perform netball in accordance to rules	39.3.1 Perform fundamental skills in netball 39.3.2 Use netball rules
		39.4 Perform netball tactics	39.4.1 Perform offensive skills in netball 39.4.2 Perform defensive skills in netball 39.4.3 Use psychological skills in netball

Main Fields	Occupations	Modules (Main Competence)	Units (Specific competences)
		39.5 Perform players roles in their respective playing zones	39.5.1 Perform roles of players' in attacking positions 39.5.2 Perform roles of players in defensive position 39.5.3 Practice roles of players in midcourt position
		39.6 Use of ICT for netball Development	39.6.1 Build competences on using ICT for enhancing performance in netball 39.6.2 Use ICT for enhancing performance in netball
		39.7 Demonstrate mastery of playing netball	39.7.1 Perform individualized skills 39.7.2 Play netball matches
		39.8 Demonstrate mastery in managing a game	39.8.1 Organise netball games 39.8.2 Umpiring netball matches
		39.9 Demonstrate mastery in organizing netball events	39.9.1 Design the events 39.9.2 Plan netball events 39.9.3 Coordinate netball events

Main Fields	Occupations	Modules (Main Competence)	Units (Specific competences)
	40.0 Track Event Performance	40.1 Maintaining health and safety in track events	40.1.1 Maintaining health and safety practices 40.1.2 Rendering first aid
		40.2 Performing Exercises for improving physical fitness	40.2.1 Performing Exercises for improving health related physical fitness 40.2.2 Performing Exercises for improving performance related physical fitness
		40.3 Performing sprints skills in accordance to rules	40.3.1 Performing sprints skills and techniques 40.3.2 Using rules in sprinting Events 40.3.3 observing moral values and ethics in sports
		40.4 Performing relays skills in accordance to rules	40.4.1 Performing 4x100 m relay 40.4.2 Performing 4x400m relay race 40.4.3 Using Relay Rules 40.4.4 Using psychological skills in relays
		40.5 Performing hurdling skills, and technique	40.5.1 Performing 100m hurdle skills and technique 40.5.2 Perform 110m hurdle skills and technique 40.5.3 Performing 400m hurdle skills and technique 40.5.4 Using hurdling rules and regulation
		40.6 Performing Steeple chase race	40.6.1 Performing 3000 m steeple chase race skills 40.6.2 Using steeplechase rules and regulation
		40.7 Performing cross- country race	40.7.1 Performing cross-country race 40.7.2 Using cross-country race rules and regulation

Main Fields	Occupations	Modules (Main Competence)	Units (Specific competences)
		40.8 Using ICT for improving track performance	40.8.1 Developing video analysis for track performance 40.8.2 Practicing Data analytic technique in track performance
		40.9 Performing middle-distance skills and rules	40.9.1 Performing 800m race skills 40.9.2 Performing 1500m distance race skills 40.9.3 Using middle-distance rules and regulation
		40.10 Performing Long-distance skills and rules	40.10.1 Performing 5,000m race skills 40.10.2 Performing 10,000m race skills 40.10.3 Using Long-distance rules and regulation

Main Fields	Occupations	Module (Main competences)	Unit (Specific competences)
Crosscutting Subject	41.0 Computer Application	41.1 Introduction to computer	41.1.1 Organizing a microcomputer and its peripherals
		41.2 Office application	41.2.1 Word Processing 41.2.2 Working with spreadsheets 41.2.3 Working with presentation applications 41.2.4 Working with desktop publishing
		41.3 Implementing internet and digital marketing	41.3.1 Administering internet applications 41.3.2 Administering internet safety 41.3.3 Administering digital marketing

Main Fields	Occupations	Module (Main competences)	Unit (Specific competences)
	42.0 Technical Drawing	42.1 Drawing plane geometry	42.1.1 Drawing layout 42.1.2 Constructing angles 42.1.3 Constructing geometrical figures
		42.2 Scale drawing	42.2.1 Constructing plane and diagonal scales
		42.3 Constructing pictorial drawing	42.3.1 Constructing isometric projection 42.3.2 Constructing oblique projection
		42.4 Constructing orthographic projection	42.4.1 Constructing orthographic projection 42.4.2 Drawing in the first-angle orthographic projection 42.4.3 Constructing drawing in the third-angle orthographic projection
		42.5 Constructing sectional views	42.5.1 Sectioning of engineering components 42.5.2 Drawing conic section
		42.6 Drawing of similar figures and equivalent areas	42.6.1 Enlarging and reducing of figures 42.6.2 Drawing equivalent areas
		42.7 Drawing loci	42.7.1 Constructing locus of mechanism 42.7.2 Constructing basic curves
		42.8 Developing objects and their interpenetration	42.8.1 Developing objects 42.8.2 Interpretating objects
		42.9 Drawing detailed working drawings	42.9.1 Producing detailed working drawings
		42.10 Implementing Computer Aided Design (CAD)	42.10.1 Performing 2D CAD basics 42.10.2 Performing 3D CAD modelling

Main Fields	Occupations	Main competences	Specific competences
	43.0 Life Skills	43.1 Building personality and character	43.1.1 Appreciating people's values 43.1.2 Developing self-awareness 43.1.3 Developing self-esteem 43.1.4 Developing self-confidence 43.1.5 Managing emotions 43.1.6 Building character
		43.2 Maintaining interpersonal relationships and effective communication	43.2.1 Maintaining an interpersonal relationship 43.2.2 Building interpersonal communication 43.2.3 Managing peer pressure
		43.3 Enhancing problem solving and effective decision making	43.3.1 Managing problem 43.3.2 Making the right decision 43.3.3 Coping with stress
		43.4 Developing negotiation and conflict resolution skills	43.4.1 Developing assertive skills 43.4.2 Building negotiation skills 43.4.3 Developing conflict resolution skills
		43.5 Maintaining sexual and reproductive health.	43.5.1 Managing reproductive health 43.5.2 Understanding Sexually Transmitted Infections (STIs) and Reproductive Tract Infections (RTIs). 43.5.3 Testing and Care for HIV/AIDS patients 43.5.4 Exploring human right 43.5.5 Understanding and challenging HIV stigma and discrimination.

Main Fields	Occupations	Main competences	Specific competences
		43.6 Gender Concerns	43.6.1 Understanding the concept of gender. 43.6.2 Exploring gender issues.
		43.7 Achieving career goals and vision	43.7.1 Staying focused on career goals and vision.
		43.8 Developing creative and critical thinking abilities.	43.8.1 Building creative and critical thinking abilities.
		43.9 Developing referrals and linkage.	43.9.1 Understanding and utilising support systems
		43.10 Building customer care ability.	43.10.1 Giving customers a positive image. 43.10.2 Offering quality and standard customer care service

## Part Four

### Teaching and Learning

This curriculum emphasises the use of teaching and learning techniques that make the student the centre of learning and the teacher the facilitator. The teacher will use techniques that involve the student in teaching and learning based on the subject, various needs and the student’s abilities. The techniques that will be used include using games and art, ICT and other assistive technologies, scientific experiments, study tours, discussions, gallery walks and other interactive techniques that encourage learning. The curriculum insists that the teacher should be creative and flexible in using real objects available in the environment and creating an environment for the student to use such objects in learning.

#### 4.1 Cross-cutting Issues

Cross-cutting issues are among the important aspects considered in this curriculum. Students will learn cross-cutting issues such as the environment, health and inclusive education. Likewise, they will learn gender education, peace education, ethics, rights and responsibilities of the child, human rights, safety and security, road safety, financial literacy, anti-corruption, cooperation and union matters. These issues will be integrated in carrier subjects during the teaching and learning of various subjects considering the relationship between the cross-cutting issue and the respective subject.

#### 4.2 Duration and the Number of Periods

An academic year will have 194 days equal to 39 weeks that are divided into two equal terms. In each term, two weeks will be used for internal assessment. Each period will take 40 minutes, and the study time is 6 hours per day. The distribution of periods and duration for each subject in each stage of secondary education is presented in Tables 6 and 7.

**Table 6:** *Compulsory Core Subjects and the Number of Periods per Week*

No.	Subject	Number of periods per week	
		Form I & II	Form III & IV
1.	Mathematics	5	5
2.	Kiswahili	4	4
3.	English Language	5	5
4.	Business studies	2	4
5.	Geography	3	4
6.	Historia ya Tanzania na Maadili	2	2

**Table 7: Elective Subjects and Number of Periods per Week**

No.	Subject	Number of periods per week	
		Form I & II	Form III & IV
1.	Physics	3	4
2.	Chemistry	3	4
3.	Biology	3	4
4.	Agriculture	5	5
5.	Computer science	2	2
6.	Food and Human Nutrition	5	5
7.	Sports	4	4
8.	Textile and Garment Construction	5	5
9.	Fine Art	2	2
10.	Theatre Arts	2	2
11.	Additional Mathematics	0	4
12.	Literature in English	–	2
13.	Fasihi ya Kiswahili	–	2
14.	French	2	2
15.	Arabic	2	2
16.	Chinese Language	2	2
17.	Music	2	2
18.	History	2	3
19.	Book-keeping	2	4
20.	Bible Knowledge	2	2
21.	Elimu ya Dini ya Kiislamu	2	2

The time allocated for Vocational Education streams is 1500 hours per year. The distribution of hours is presented in Table 8. The time allocation will follow the respective occupational curriculum approved by NACTVET. Extracurricular activities will be implemented following the guidelines issued from time to time by the relevant authorities.

**Table 8:** *Distribution of Time for Vocational Education Stream*

No	Description	Time (hours per year)	
		Form I& II	Form III& IV
1	Vocational subjects	870	720
2	Academic subjects	480	480
3	Project work	-	150
4	Examinations	150	150
	<b>Total</b>	<b>1500</b>	<b>1500</b>

### **4.3 The Language of Instructions**

The 2014 Education and Training Policy, the 2023 Edition, directs the use of Kiswahili, English as well as other foreign languages in education and training. In addition, the Policy proclaims that the language of instructions in secondary education is English. Kiswahili, English, French, Chinese and Arabic subjects will be taught in their respective languages.

## **Part Five**

### **Assessment and Evaluation for Teaching and Learning**

Assessment in education is carried out to determine the student's progress in terms of what he/she knows, what he/she can do, and changes in behaviour and attitudes and to identify the student's challenges in learning to find solutions. In addition, assessment stimulates the student's motivation to learn more, and it improves teaching. As stated in the 2014 Education and Training Policy, the 2023 Edition, this Curriculum aims to strengthen the assessment and evaluation of student academic progress. This Curriculum will use a continuous and final assessment system based on criteria for assessing student progress that are recognized based on competence building. Internal assessments will be coordinated in school along with teaching and learning, and external assessments will be coordinated and implemented by the responsible authorities, including the National Examinations Council of Tanzania, and the National Council for Technical and Vocational Education and Training to ensure the validity and reliability of internal assessments.

#### **5.1 Assessment for Academic Subjects**

##### **5.1.1 Formative Assessment**

Formative assessment is assessment that takes place during the teaching and learning process to support or facilitate effective learning for students. The aim of this assessment is to help the student and the teacher identify the areas that the student has understood and the areas that they had challenges and thus enable them to find a solution to the challenge he/she is facing and address it in time. Formative assessment can be done using various methods, including asking questions, providing feedback, asking the student to determine the goal or objectives of learning, the student assessing oneself or being tested by his/her fellows and using the results of the final assessment to improve teaching and learning. The use of these methods will enable the teacher to identify the students' understanding and challenges when the teaching and learning process continues and thus jointly devise strategies for addressing the challenges.

##### **5.1.2 Continuous Assessment**

Continuous assessment takes place throughout teaching and learning in and out of the classroom. This assessment helps the teacher to determine the efficiency in the student's performance of various daily activities. This assessment also enables the teacher and

student to know in which area they have succeeded or not so as to set a strategy to improve and strengthen learning. Moreover, the assessment enables the teacher to identify various talents of the student such as creativity, painting, arts and sports. Continuous assessment accounts for 30 per cent of the final assessment of Form IV. For subjects that began being taught in Standard III Primary Education, for example *Historia ya Tanzania na Maadili*, Mathematics, English Language, Chinese, French, Arabic, and Kiswahili, their continuous assessment scores for Class VI National Assessment will contribute to continuous assessment for Form IV as shown in Table 9.

**Table 9:** *Distribution of Continuous and Summative Assessment Marks for the Subjects Started in Standard III*

No.	Type of Assessment	Percentage
1.	National Standard VI Assessment	5.0
2.	National Form II Assessment	6.0
3.	Form III Annual Examination	5.0
4.	Project	7.0
5.	Form IV Mock Examination	7.0
6.	Form IV National Examination	70.0
	<b>Total</b>	<b>100.0</b>

Moreover, for subjects that begin to be taught in Form I, the breakdown of continuous assessment marks is as shown in Table 10.

**Table 10:** *Distribution of Continuous and Summative Assessment Marks for Subjects Starting to be Taught Form I*

No.	Type of Assessment	Percentage
1.	National Form II Assessment	6.0
2.	Form III Terminal Examination	5.0
	Form III Annual Examination	5.0
3.	Project	7.0
4.	Form IV Mock Examination	7.0
5.	Form IV National Examination	70.0
	<b>Total</b>	<b>100.0</b>

For subjects that begin to be taught in Form III, the breakdown of continuous assessment marks is as shown in Table 11.

**Table 11:** *Distribution of Continuous and Summative Assessment Marks for Subjects Starting to be Taught Form III*

<b>Na.</b>	<b>Type of Assessment</b>	<b>%</b>
	Form III Terminal Examination	5.0
	Form III Annual Examination	5.0
	Form IV Terminal Examination	6.0
	Project	7.0
	Form IV Mock Examination	7.0
	Form IV National Examination	70.0
<b>Total</b>		<b>100.0</b>

### **5.1.3 Summative Assessment**

The summative assessment will be conducted at the end of each term. Moreover, the summative assessment will also involve national examinations that will be held at the end of Form II and the Form IV final examination. The Form II assessment aims to determine whether the student has reached the expected competence so that he can continue to Form III. The results of this assessment will be used as part of the continuous assessment in the Form IV final examination, whose aim is to obtain information and understand the competence level that the student has reached. Moreover, this assessment will help determine to what extent the objectives at the Secondary Education level, Form I – IV, have been achieved. For a student to graduate at this level, he or she must sit for the national examination at the end of Form IV. The National Examinations Council of Tanzania will be responsible for this assessment. A graduate of Secondary Education, Forms I – IV, will receive a certificate to show that he or she has graduated this stage. This assessment will account for 70 per cent of the total assessment.

### **5.1.4 Tools and Methods of Assessment and Evaluation**

Various tools and techniques will be used to assess theory and practice in the entire teaching and learning process. The techniques that will be used include brainstorming, observation, tests, face-to-face questions, exercises, (individual and group) practical work and project work. Other techniques are practical tests, presentations, midterm examinations and final examinations. In addition, the Curriculum emphasizes the use of assessment and evaluation tools such as checklists, questionnaires and portfolios. Such techniques and tools will vary depending on the purpose of the assessment, the type and requirements of the subject, the different needs of the student and the competence intended to be developed.

## **5.2 Assessment of Vocational Education Subjects**

The assessment of vocational education stream will be done in accordance with the Examination Regulations, Assessment and Certification Guidelines and Procedures of the National Council of Technical and Vocational Education and Training (NACTVET).

All students of the Vocational Education Stream will take NACTVET examinations in Form II (NVA level 1), Form III (NVA level 2) and Form IV (NVA level 3). NACTVET will award certificate of competence to a student after successful passed at a given level.

## **Part Six**

### **Curriculum Implementation Resources**

Curriculum implementation resources involve human resources, materials, time and finance. The standards and qualifications of these resources are provided by the responsible ministry through various guidelines. In addition, some of those resources are described as follows:

#### **6.1 Human Resources**

The required human resources for the implementation of the Curriculum involve competent teachers and support staff. In addition, the teacher who will teach General Secondary Education, Form I–IV, should have at least a Bachelor’s Degree of Education in the subjects he/she will teach from a college recognised by the Government. A skilled teacher in Vocational Secondary Education, Forms I–IV, must have a Diploma or Degree in the relevant field of vocational subjects and received teaching training for at least one year.

Support staff is an important link in the successful implementation of this Curriculum. This group includes professionals such as librarians, laboratory technicians, health practitioners and nurses, secretaries, office assistants, security guards and others. These workers should have received training from a college recognized by the Government and qualified in the relevant fields.

#### **6.2 Material Resources**

Material resources include various materials that will support the implementation of the Curriculum. The resources include teaching and learning materials such as syllabus, guides, textbooks and supplementary books, and teaching and learning tools. Other materials are science and ICT equipment, such as tape recorders and computers. Material resources include playgrounds, sports equipment, art and various specialisations. In addition, other important materials for the implementation of the Curriculum are assistive tools for students with special needs. These are visual, hearing and tactile aids such as Braille machines, audio books, amplifiers and text magnifiers for the visually impaired. To ensure quality, the tools that will be used in the school are those approved by the ministry responsible for education.

### **6.3 Furniture and Buildings**

Furniture and buildings are among the important resources in the implementation of the Curriculum. Buildings include classrooms, laboratories, workshops, libraries, teachers' offices, dormitories, halls, health centres and kitchens. The preparation of such furniture and buildings should consider all types of students, including students with special needs. The VET facilities and infrastructure should offer chances for practical training to students in the acquisition of skills in different occupations. Therefore, furniture and buildings will be set in accordance with the guidelines set by the ministry responsible for education.

### **6.4 Time Resources**

The period of implementing this Curriculum is four (4) years, with two terms for each academic year. There are 194 academic days, which is equal to 39 weeks as presented in Tables 3 and 4. The academic calendar will be offered by the ministry responsible for managing education. Therefore, parents, guardians, society, the Government and various stakeholders in education should ensure that the duration set is utilized effectively in implementing this Curriculum.

### **6.5 Financial Resources**

The implementation of this Curriculum depends on the availability of sufficient financial resources. This resource will be obtained through contributions in terms of money and property from various stakeholders and the Government in collaboration with the private sector as well as educational development partners to ensure that there are sufficient financial resources to successfully implement this Curriculum.

### **6.6 Participation of Stakeholders in Implementing the Curriculum**

The participation of parents/guardians and other education stakeholders is important for the successful implementation of this Curriculum. Secondary schools will collaborate with these stakeholders to achieve the intended goals in providing secondary education.

### **6.7 Management, Monitoring and Evaluation of Curriculum Implementation**

The management of the implementation of the Curriculum for Secondary Education, Form I–IV, will be conducted from the school level to the ministry level according to the guidelines set by the ministry responsible for education. Curriculum management at the school level will be done by the school head in collaboration with the school Board,

District and Regional Education Officers, and School Quality Assurance Officers. Moreover, the monitoring of the implementation of the Curriculum for Secondary Education, Form I–IV, aims to see and obtain feedback on how the teaching and learning process is being carried out, including achievements, challenges and how to address them in order to meet the expectations.

## Bibliography

- Charter, A. (1990). *African Charter on the Rights and Welfare of the Child*. African Union.
- Jamhuri ya Muungano wa Tanzania. (1982). *Mfumo wa Elimu Tanzania 1981-2000. Ripoti na maendeleo ya tume ya Rais ya Elimu*. Juzuu la Pili.
- KICD. (2017). *Basic education curriculum framework*. Kenya Institute of Curriculum Development.
- Lakkala, S., Uusiautti, S., & Määttä, K. (2016). How to make the neighbourhood school a school for all? Finnish teachers' perceptions of educational reform aiming towards inclusion. *Journal of Research in Special Educational Needs*, 16(1), 46-56.
- Mauritius Institute of Education. (2015). *National curriculum framework nine year continuous*. Mauritius Institute of Education.
- Ministry of Education and Vocational Training. (2014). *Education and training policy*. MoEC.
- Ministry of Education, Science and Technology. (2019). *National curriculum framework for basic and teacher education*. Tanzania Institute of Education.
- Ministry of Education, Science and Technology. (2022). *National strategy for inclusive education in Tanzania 2021/22 -2025/26*. MoEST.
- Ministry of Education and Vocational Training. (2009). *National strategy on inclusive education 2009 – 2017*. MoEST.
- National Institute for Educational Development. (2016). *National curriculum for basic education*. Ministry of Education, Arts and Culture.
- Nyerere J. K. (1967). *Education for self-reliance*. Government printer.
- Persekutuan, P. P. K. (2013). *Malaysia education blueprint 2013-2025 (Preschool to Post-Secondary Education)*. Kementerian Pendidikan.
- Taasisi ya Elimu Tanzania. (2022). *Ripoti ya maoni ya wadau kuhusu uboreshaji wa mitaala ya elimu ya awali, msingi, sekondari na ualimu*. TET.
- Tanzania Institute of Education. (2007). *Curriculum for ordinary level secondary education in Tanzania*. Tanzania Institute of Education.
- UNESCO. (1990). *Joemtien World Conference on EFA*. UNESCO.
- United Republic of Tanzania. (2019). *National curriculum framework for basic and teacher education*. Ministry of Education, Science and Technology.
- United Republic of Tanzania. (1999). *The Tanzania development vision 2025*. United Republic of Tanzania.