


CURRICULUM DOCUMENT				
CURRICULUM CODE	CURRICULUM TITLE			
671206-000-01	BASIC KITCHEN APPLIANCES REPAIRER			
Industry Body Partner	Name	E-mail	Phone	Logo

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1. OCCUPATIONAL INFORMATION

1.1. Associated Occupation

OFO Code: 671206 – Domestic Appliance Mechanician

1.2. Skill Addressed by this Curriculum

Basic Kitchen Electrical Appliance Repairer

1.3. Related Occupational Qualification Curriculum

Occupational Certificate: Electrician

2. CURRICULUM INFORMATION

2.1. Curriculum Structure

The total credit value for this Skills Programme: **27 Credits**

This Skills Programme is at **NQF Level 02**

This Skills Programme is made up of the following compulsory Integrated Application Skills Modules.

The Integrated Application Skills modules will include practical and theoretical learning components that are integrated such that learning and training is seamless and it would be best suited for the target population.

INTEGRATED APPLICATION MODULES:

CURRICULUM COMPONENT	MODULE ID	TITLE	NQF LEVEL	CREDITS
INTEGRATED APPLICATION MOULES	671206000-SP01-IAM01	Occupational Health, Safety and Environmental Practices	02	02
	671206000-SP01-IAM02	Domestic Electrical Appliances	02	04
	671206000-SP01-IAM03	Fundamentals of Single Phase Electricity	02	04
	671206000-SP01-IAM04	Basic Kitchen Electrical Appliances	02	15
	671206000-SP01-IAM05	Employability and Entrepreneurship	02	02

Total number of credits for Integrated Application Modules: **27**

The learning period is 45 (9 weeks) days, this is based on the understanding that a day in the Community College takes a maximum of 6 hours.

2.2. Learning Assumed to be in Place

- Open Access

2.3. Quality Assurance

- QCTO will facilitate the assessment and quality assurance

2.4. Recognition of Prior Learning (RPL)

Accredited providers must apply the internal assessment criteria specified in the related curriculum document to establish, confirm and recognise prior learning for access to the integrated summative assessment.

RPL for access to the Skills Programme

The access criteria into the learning programme is Open Access for all.

2.5. Possible Learning Pathway

- National Certificate: Domestic Appliance Repair, NQF Lev 03, Credits: 131
- Further Education and Training Certificate: Appliance Repair, NQF Lev 04, Credits: 150
- Occupational Certificate: Electrician, NQF Lev 04, Credits: 360

SECTION 2: SKILLS PROGRAMME PROFILE

1. **Skills Programme Purpose**

The purpose of this skills programme is to prepare a learner to operate as a Domestic Electrical Appliance Repairer

A Domestic Appliance Repairer repairs and maintains domestic electrical appliances with specific focus on basic kitchen appliances in rural and urban residential areas and will have understanding of broader competencies for employments and entrepreneurial qualities

2. **Skills Programme Tasks**

- Troubleshoot, Repair and Maintain Basic Kitchen Electrical Appliances.

3. **Skills Programme Task Details**

- Maintain and Repair Basic Kitchen Electrical Appliances

Unique Product or Service:

- Repaired and functional basic kitchen electrical appliances (Kettle, Toaster, Iron, Frying Pan, Two Plate Stove)

Skills Programme Responsibilities:

- Troubleshoot and Repair of basic kitchen electrical appliances.
- Maintain basic kitchen electrical appliances

SECTION 3: CURRICULUM COMPONENT SPECIFICATIONS

SECTION 3A: INTEGRATED APPLICATION MODULE SPECIFICATIONS

- 671206000-SP01-IAM01 Occupational Health, Safety and Environmental Practices
NQF Lev 02, Cr 02
- 671206000-SP01-IAM02 Domestic Electrical Appliances,
NQF Lev 02, Cr 04
- 671206000-SP01-IAM03 Fundamentals of Single Phase Electricity,
NQF Lev 02, Cr 04
- 671206000-SP01-IAM04 Troubleshoot, Repair and Maintain Basic Kitchen Electrical Appliances, **NQF Lev 02, Cr 15.**
- 671206000-SP01-IAM05 Employability and Entrepreneurship,
NQF Lev 02, Cr 02

Total number of credits for integrated application modules: **27**

1. **671206000-SP01-IAM01: Occupational Health, Safety and Environmental Practices, NQF Lev 02, Cr 02**

1.1 Purpose of the Knowledge Modules

The main focus of the learning in this knowledge module is to develop an understanding of health, safety and environmental practices concepts commonly associated with the domestic electrical appliances and to practice in an domestic electrical appliances field.

The required duration of enrolment on this module is 20hrs

The learning will enable the learner to demonstrate an understanding of:

IAM01-KT01: General Overview of Occupational health and safety legislation

IAM01-KT02: General Workshop Safety Practices

1.2 Guidelines for Topics

1.2.1 IAM01-KT01: General overview of occupational health and safety legislation.

Topic elements to be covered include:

KT0101: General overview of occupational health and safety legislation.

Internal Assessment Criteria:

- Discuss Occupational health and safety aspects

1.2.2 IAM01-KT02: General Workshop Safety Practices

Topic elements to be covered include:

KT0201: General Workshop Safety Rules

KT0202: Safety Symbols and coding

KT0203: Personal Protective Equipment

Internal Assessment Criteria:

- Explain workshop safety rules
- Identify and explain safety symbols and coding
- Identify and explain types of personal protective equipment

1.3 Provider Programme Accreditation Requirements

Physical Requirements:

- Assessment instruments.
- Learning material.
- Training/facilitation resources.

Demonstrate access to:

- i) PPE per learner: safety goggles, safety shoes, gloves
- ii) Workshop with safety signs

Human Resource Requirements:

- Recommended facilitator/learner ratio 1 to 12.

Legal Requirements:

- None.

1.4 Exemptions

- None

2.1. Purpose of the Knowledge Modules

The main focus of the learning in this knowledge module is to develop an understanding of the fundamentals of the domestic electrical appliances principles and concepts commonly associated with the domestic electrical appliances and to practice in a domestic electrical appliances field.

The required duration of enrolment on this module is 30hrs.

The learning will enable the learner to demonstrate an understanding of:

IAM02-KT01: Introduction to the domestic electrical appliances (30%)

IAM02-AT02: Engineering hand tools and Equipment (40%)

IAM02-AT03: Engineering measuring instruments (30%)

2.2. Guidelines for Topics

2.1.1 IAM02-KT01: Introduction to the domestic electrical appliances. (30%)

Topic elements to be covered include:

KT0101: Career Opportunities in the domestic electrical appliances field.

KT0102: Legislation related to the domestic electrical appliances.

Internal Assessment Criteria:

- Describe and explain the job environment
- Explain available career opportunities
- Explain legal aspects impacting the electrical trade

2.1.2 IAM02-AT02: Engineering Hand tools and Equipment (40%)

Topic elements to be covered include:

AT0201: Types, uses and care of hand tools

Internal Assessment Criteria:

- Identify hand tools and describe the use
- Identify Basic power tools and describe the use
- Identify workshop equipment and describe use

2.1.3 AM02-AT03: Engineering Measuring Instruments (30%)

Topic elements to be covered include:

AT0301: Types, uses and care of measuring instruments

AT0302: Basic electrical measuring instruments

AT0303: Safe use of measuring and testing instruments

Internal Assessment Criteria:

- Identify the different types of electrical measuring instruments
- Explain the safe use of electrical measuring instruments

2.3. Provider Programme Accreditation Requirements

Physical Requirements:

- Assessment instruments.
- Learning material.
- Training/facilitation resources.

Demonstrate access to:

- i) PPE per learner: safety goggles, safety shoes, gloves
- ii) Workshop with engineering benches and vices
- iii) Hand tools per learner: hacksaw, Set of Pliers, Set of Screwdrivers, Ballpeen hammer, Measuring Tape, Measuring instruments, Multimeter.
- iv) Pedestal grinder, Pedestal drill.

Human Resource Requirements:

- Recommended facilitator/learner ratio 1 to 12 on Knowledge Skills

Legal Requirements:

- None.

2.3 Exemptions

- None

3. 671206000-SP01-IAM03 - Fundamentals of Single Phase Electricity, NQF Lev 02, Cr 04

3.1 Purpose of the Knowledge Modules

The main focus of the learning in this knowledge module is to develop an understanding of Single Phase Alternating Current concepts commonly associated with the domestic electrical appliances and to practice in a domestic electrical appliances field.

The required duration of enrolment on this module is 30hrs

The learning will enable the learner to demonstrate an understanding of:

IAM03-KT01: Basic Electrical Theory (50%)

IAM03-KT02: Basic Electrical Circuits. (50%)

3.2 Guidelines for Topics

3.2.1 IAM03-KT01: Basic Electrical Theory. (50%)

Topic elements to be covered include:

KT0101: Fundamentals of Electricity.

KT0102: Electrical Safety

Internal Assessment Criteria:

- Discuss and explain electrical principles and concepts
- Calculations of basic circuits
- Explain electrical safety factors

3.2.2 IAM03-KT02: Basic Electrical Circuits. (50%)

Topic elements to be covered include:

KT0201: Basic electrical symbols

KT0202: Basic electrical circuits

Internal Assessment Criteria:

- Identify and Explain basic electrical symbols
- Interpret basic electrical circuits

3.3 Provider Programme Accreditation Requirements

Physical Requirements:

- Assessment instruments.
- Learning material.
- Training/facilitation resources.

Demonstrate access to:

- i) PPE per learner: safety goggles, safety shoes, gloves
- ii) Workshop with safety signs

Human Resource Requirements:

- Recommended facilitator/learner ratio 1 to 12.

Legal Requirements:

- None.

3.4 Exemptions

- None

4. 671206000-SP01-IAM04 Troubleshoot, Repair and Maintain Basic Kitchen Electrical Appliances, NQF Lev 02, Cr 03.

4.1 Purpose of the Integrated Application Modules

The focus of the learning in this integrated application module is to develop an understanding and practice the techniques, methods and procedures to repair and maintain Basic kitchen electrical appliances and to practice in a domestic electrical appliance repairs field.

The domestic electrical appliances does not include any electronic devices such as: (Television, Radio, Computers, Camera, Refrigeration and Air-conditioners. Etc.)

The integrated application module should take place in a simulated environment and the required duration of enrolment on this module is 150hrs.

The learning will enable the learner to demonstrate an understanding of:

IAM04-KT01: Principles of operation of kitchen electrical appliances. (10%)

IAM04-AT02: Troubleshoot, Repair and Maintain basic kitchen Electrical Appliances. (40%)

IAM04-AT03: Troubleshoot, Test and Repair Techniques. (30%)

IAM04-AT04: Quality Inspections. (20%)

4.2 Guidelines for Integrated Application Skills

4.2.1 IAM04-KT01: Principles of operation of basic kitchen electrical appliances. (10%)

Topic elements to be covered include:

KT0101: Operating Principles of Basic Kitchen Electrical Appliances.

Internal Assessment Criteria:

- Identify different Basic kitchen electrical appliances
- Explain operating principles of Basic kitchen electrical appliances
- State the safe working principles of Basic kitchen electrical appliances

4.2.2 IAM04-AT02: Troubleshoot, Repair And Maintain Basic Kitchen Electrical Appliances

Guidelines for Integrated Application Skills:

Troubleshoot, Repair and Maintain Basic kitchen Electrical Appliances

Scope of Integrated Application Skills:

Given the relevant safe working procedure, appliance manufacturer's specifications, Quality inspections checklist, hand tools, measuring instruments and the applicable domestic electrical appliance, the learner must be able to:

- PA0201 Select and use the correct hand tools, specialised tools and measuring instruments to disassemble a given basic kitchen electrical appliances.
- PA0202 Identify and terminate conductors.
- PA0203 Select and use the correct hand tools, specialised tools and measuring instruments to troubleshoot the given basic kitchen electrical appliances for correct operation.
- PA0204 Select and use the correct hand tools, specialised tools and measuring instruments to test and replace faulty components of a given basic kitchen electrical appliances.
- PA0205 Select and use the correct hand tools, specialised tools and measuring instruments to repair the given basic kitchen electrical appliances for correct operation.
- PA0206 Select and use the correct hand tools, specialised tools and measuring instruments to reassemble a given basic kitchen electrical appliances for correct operation.
- PA0207 Select and use the correct hand tools, specialised tools and measuring instruments to test a single phase motor of a given basic kitchen electrical appliances for correct operation.
- PA0208 Conduct quality inspections on a given domestic electrical appliance before and after the repair or maintenance has been conducted.
- PA0209 Store and take care of customer's property

Applied Knowledge:

- AK0201 Operational specifications of appliances.
- AK0202 Isolation and Lockout procedures.
- AK0203 Techniques of safe using and care of hand tools, specialised tools and measuring instruments.
- AK0204 Techniques of safe using measuring instruments to test electrical components and devices.
- AK0205 Techniques of safe using measuring instruments to test single phase electrical motors in an applicable basic kitchen electrical appliances
- AK0206 Techniques of terminating and connecting conductors.
- AK0207 Procedures and processes for repairing electrical appliances.
- AK0208 Procedures and processes for disassembling and reassembling basic kitchen electrical appliances.

- AK0209 Applicable occupational health and safety principles.
- AK02010 Applicable principles of relevant SANS 10142 sub-sections.
- AK02011 Applicable quality assurance inspections principles

Internal Assessment Criteria:

- Hand tools, specialised tools were correctly used as per workshop practices and safe procedures.
- Measuring instruments were correctly used as per workshop practices and safe procedures.
- Personal Protective Equipment correctly used and complied with the workshop procedures
- Conductors correctly terminated, connected and neatly secured according to requirements, specifications and industry standards.
- Operational procedures of appliances are correctly interpreted.
- Disassembly and reassembly procedures and standards correctly followed.
- Techniques for appliance fault-finding, repairs and maintenance correctly carried out in accordance to appliance specifications and standards
- Techniques for testing components and devices correctly carried in accordance to appliance specifications and standards.
- Safe electrical motor testing procedure correctly carried out
- Procedures and principles of storage and quality assurance are correctly followed.

4.2.3 IAM04-AT03: Fault Finding, Test and Repair Techniques. (40%)

Topic elements to be covered include:

- AT0301: Fault finding and testing procedure
- AT0302: Repair and Component replacement procedure
- AT0303: Lockout procedure

Internal Assessment Criteria:

- Explain the lockout procedure
- Describe the fault finding and component or device testing procedure
- Describe electrical appliance repair and component replacement process.

4.2.4 IAM04-AT04 Quality Inspections. (20%)

Topic elements to be covered include:

- KT0401: Domestic Electrical Appliance Inspections

Internal Assessment Criteria:

- Explain the criteria for inspecting appliances before repairs/maintenance
- Explain the criteria for inspecting appliances on completion of repairs/maintenance

4.3 Provider Programme Accreditation Criteria

Physical Requirements:

Demonstrate access to:

- i) Conducive training/ facilitation domestic electrical appliance environment
- ii) PPE per learner: safety goggles, safety shoes, gloves
- iii) Workshop with safety signs, engineering benches and vices
- iv) Hand tools per learner: hacksaw, Set of Pliers, Set of Screwdrivers, Ballpeen hammer, Measuring Tape, Measuring instruments, Multimeter.
- v) Basic Kitchen Electrical Appliances (Kettle, Iron, Toaster, Two Plate Stove, Frying Pan, Urn)

Human Resource Requirements:

- Facilitator/learner at a recommended ratio 1 to 12.
- Workshop assistant at a recommended learner ratio 1 to 4.

Legal Requirements:

- Compliant with OHS ACT requirements.
- Compliant with applicable SANS/SABS 10142 Sub-clauses

4.4 Exemptions

- Not allowed to carry out any disconnection and installation of fixed appliances from the main supply.
- Not allowed to carry out any domestic wiring.
- Not to carry out any repairs on electronic appliances and devices.
- Not to carry out any repairs on refrigeration and air-conditioning equipment.

5. 671206000-SP01-IAM05 Work readiness and Entrepreneurship, NQF Lev 02, Cr 02

5.1 Purpose of the Knowledge Modules

The main focus of the learning in this knowledge module is to develop an understanding of how to prepare self for employment or starting a small business in an electrical engineering field.

The required duration of enrolment on this module is 32hrs

The learning will enable the learner to demonstrate an understanding of:

IAM05-KT01: Work readiness. (50%)

IAM05-KT02: Entrepreneurship. (50%)

5.2 Guidelines for Topics

5.2.1 IAM05-KT01: Work readiness. (50%)

Topic elements to be covered include:

AT0101: Compiling a Curriculum Vitae (CV)

KT0102: Applying for vacancies

KT0103: Job Interviews

Internal Assessment Criteria:

- Describe features of a presentable CV
- Explain application process for vacancies
- Explain the job interviews process

5.2.2 IAM05-KT02: Entrepreneurship. (50%)

Topic elements to be covered include:

KT0201: Understanding Entrepreneurship

KT0202: Develop Entrepreneurial Abilities

Internal Assessment Criteria:

- Explaining the world of small business
- Explain starting and registering a small business
- Explain micro-finance business opportunities

5.3 Provider Programme Accreditation Requirements

Physical Requirements:

- Assessment instruments.

- Learning material.
- Training/facilitation resources.

Human Resource Requirements:

- Recommended facilitator/learner ratio 1 to 12.

Legal Requirements:

- None.

5.4 Exemptions

- None