

OCCUPATIONAL SKILLS PROGRAMME CURRICULUM DOCUMENT

IN LINE WITH THE QQSF POLICY (2021) OCCUPATIONAL QUALIFICATION TYPE (NOMENCLATURE)

SKILLS PROGRAMME	SKILLS PROGRAMME ID	TITLE (DESCRIPTOR)	NQF LEVEL	CREDITS
	SP-250501	Electrician's Assistant (Low Voltage Systems)	2	29
CURRICULUM CODE	900521-000-00-00			
PARTNER DETAILS	ORGANISATION NAME	WEBSITE ADDRESS	TELEPHONE NUMBER	LOGO
QUALITY PARTNER – DEVELOPMENT	The Energy & Water Sector Education Training Authority (EWSETA)	www.ewseta.org.za	011 274 4700	

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SECTION 1: CURRICULUM SUMMARY

1.1 Occupational Information:

1.1.1 Associated, Organising Framework for Occupations (OFO) Occupational Code and Title

862918: Electrical or Telecommunications Trades Assistant

1.1.2 Skills Programme Type, Title, NQF Level, Credits and Curriculum Code, addressed by this Curriculum.

TYPE	TITLE	NQF LEVEL	CREDITS	CURRICULUM CODE
Skills Programme	Electrician's Assistant (Low Voltage Systems)	2	29	900521-000-00-00

1.1.3 Alternative titles used by industry:

Electrician Aide, Electrical Helper, Artisan Aide Electrical

1.2 Curriculum Information:

1.2.1 Articulation for Skills programmes

(a) Work Opportunities:

Electric Cable Layer / Puller, Electrical Line Mechanic's Assistant.

(b) Learning Opportunities:

Electrician

1.3 Curriculum Structure:

1.3.1 Knowledge/Theory Modules:

900521-000-00-KM-01, Workplace health and safety, NQF Level 2, Credits 8

900521-000-00-KM-02, Tools, equipment and electrical work, NQF Level 2, Credits 5

900521-000-00-KM-03, Wiring and cabling, NQF Level 2, Credits 4

Total number of credits: 17

1.3.2 Practical Skills Modules:

900521-000-00-PM-01, Prepare trenches and lay underground cables, NQF Level 1, Credits 1

900521-000-00-PM-02, Install above ground cables and cable support structures, NQF Level 2, Credits 4

900521-000-00-PM-03, Install distribution boards/panels, boxes and fittings, NQF Level 2, Credits 1

900521-000-00-PM-04, Install wire ways, NQF Level 1, Credits 4

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900521-000-00-PM-05, Conduct wiring and prepare basic drawings, NQF Level 2, Credits 1

900521-000-00-PM-06, Terminate cables and wires, NQF Level 2, Credits 1

Total number of credits: 12

1.4 Entry Requirements:

NQF Level 1 qualification

1.5 Recognition of Prior Learning (RPL):

1.5.1 RPL for Access:

Learners may use the RPL process to gain access to training opportunities for a skills programme if they do not meet the formal, minimum entry requirements for admission. RPL assessment provides an alternative access route into a skills programme.

Such an RPL assessment may be developed, moderated and conducted by the accredited Skills Development Provider which offers that specific skills programme. Such an assessment must ensure that the learner is able to display the equivalent level of competencies required for access, based on the NQF level descriptors

1.5.2 RPL for Exemption:

For exemption from modules through RPL, learners who have gained the stipulated competencies of the modules of a skills programme through any means of formal, informal or non-formal learning and/or work experience, may be awarded credits towards relevant modules, and gaps identified for training, which is then concluded.

1.5.3 RPL for awarding credits:

Learners who have gained the stipulated competencies of the modules of a skills programme through any means of formal, informal or non-formal learning and/or work experience, may be awarded credits towards relevant modules, and gaps identified for training, which is then concluded.

For a Skills Programme, the accredited Skills Development Provider (SDP) must ensure all modular competency requirements are met prior to the FISA and keep record of such evidence.

Upon successful completion of the FISA, RPL learners will be issued with the QCTO certificate for the skills programme. Quality Partners are responsible for ensuring the RPL mechanism and process for skills programme is approved by the QCTO.

1.6 List of Qualification(s)/Part- Qualification(s)/Skills Programme(s) Related to this Curriculum

Skills Programme: Electrician's Assistant (Low Voltage system).

SECTION 2: OCCUPATIONAL/SPECIALISATION/PART-QUALIFICATION/SKILLS PROGRAMME PROFILE

2.1 Purpose:

An Electrician's Assistant (Low Voltage Systems) assists a qualified Electrician with the installation, maintenance and repairs of electrical equipment and systems that operates at 50-1 kV AC voltages or 75-1,5 kV DC voltages up to the point before it becomes alive.

2.2 Tasks

TASK	LINKS TO ELO
Lay, handle and install cables	Prepare for the laying of cables and install cables by applying knowledge and skills of safety and a variety of tools and instruments as part of a team.
Install electrical wire ways and boxes	Install wire ways and electrical boxes by applying knowledge and skills of safety and operational requirements
Perform wiring and termination	Perform wiring and terminate wires and cables by applying knowledge and skills of safety and operational requirements in a disciplined and well-structured and supervised environment.

2.3 Occupational Task Details

2.3.1 Task 1

Lay, handle and install cables

(a) Unique Product or Service:

Properly marked and laid cables without any damage to it

(b) Responsibilities:

- Prepare trenches and lay underground cables
- Install above ground cables and cable support structures

(c) Contexts:

2.3.2 Task 2

Install electrical wire ways and boxes

(a) Unique Product or Service:

Installed wire ways and boxes ready for wiring

(b) Responsibilities:

- Install distribution boards/panels, boxes and fittings
- Install wire ways

2.3.3 Task 3

Perform wiring and termination

(a) Unique Product or Service:

Completed wiring and termination

(b) Responsibilities:

- Conduct wiring
- Terminate cables and wires

2.4 Skills Programme outline

The table below shows the relation between tasks, modules, exit level outcomes and associated assessment criteria.

2.4 Skills Programme outline

The table below shows the relation between tasks, modules, exit level outcomes and associated assessment criteria.

<p>KM01, Workplace health and safety, NQF Level 2, Credits 8</p> <ul style="list-style-type: none"> • General health and safety principles • Basic first aid and fire safety principles • Ladder safety principles 	
<p>KM02, Tools, equipment and electrical work, NQF Level 2, Credits 5</p> <ul style="list-style-type: none"> • Basic fundamentals of electricity • Tools, equipment and housekeeping <p>KM03, Wiring and cabling, NQF Level 2, Credits 4</p> <ul style="list-style-type: none"> • Wiring • Wire ways • Cabling 	<p>Task 1: Lay, handle and install cables ELO 1: Prepare for the laying of cables and install cables by applying knowledge and skills of safety and a variety of tools and instruments as part of a team.</p>
	<p>PM01, Prepare trenches and lay underground cables, NQF Level 1, Credits 1</p> <ul style="list-style-type: none"> • Prepare the area and open the trench • Prepare the trench and lay the cable • Backfill and compact the trench
	<p>PM02, Install above ground cables and cable support structures, NQF Level 2, Credits 4</p> <ul style="list-style-type: none"> • Modify and install cable support structures • Handle, install, and store cables
	<p>Task 2: Install electrical wire ways and boxes ELO 2: Install wire ways and electrical boxes by applying knowledge and skills of safety and operational requirements</p>
	<p>PM03, Install distribution boards/panels, boxes and fittings, NQF Level 2, Credits 1</p> <ul style="list-style-type: none"> • Prepare the area • Install distribution boards/panels, boxes and fittings
	<p>PM04, Install wire ways, NQF Level 1, Credits 4</p> <ul style="list-style-type: none"> • Prepare conduit • Install conduit and draw wires
	<p>Task 3: Perform wiring and termination ELO 3: Perform wiring and terminate wires and cables by applying knowledge and skills of safety and operational requirements in a disciplined and well-structured and supervised environment.</p>
	<p>PM05, Conduct wiring and prepare basic drawings, NQF Level 2, Credits 1</p> <ul style="list-style-type: none"> • Size and draw wires • Prepare basic drawings of installations
	<p>PM06, Terminate cables and wires, NQF Level 2, Credits 1</p> <ul style="list-style-type: none"> • Terminate wires and cables

Associated assessment criteria ELO 1

- The work area is appropriately barricaded and in accordance with safety requirements for the task to be performed.
- A cable is laid and correctly labelled, secured, and marked.
- Above ground cables are correctly handled and stored without any damage.

Associated assessment criteria ELO 2

- Distribution boards/panels, boxes and fittings are correctly fitted, neat, and according to the drawing.
- Metal is correctly bent and fitted according to specifications.
- PVC is correctly bent and fitted according to specifications.

Associated assessment criteria ELO 3

- Wires are correctly sized according to specifications.
- Wires are correctly drawn according to specifications.
- Wires and cables are correctly terminated, grouped and marked.

SECTION 3: CURRICULUM COMPONENT SPECIFICATIONS

3 Knowledge Module Specifications:

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
900521-000-00-KM-01	Workplace health and safety	2	8	Blended
900521-000-00-KM-02	Tools, equipment and electrical work	2	5	Blended
900521-000-00-KM-03	Wiring and cabling	2	4	Blended

3.1 Detailing Knowledge Module (KM) contents

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
900521-000-00-KM-01	Workplace health and safety	2	8	Blended

3.1.1 Module Details:

(a) Purpose of Knowledge Module:

The focus of the learning in this knowledge module is to build a basic understanding of the general principles related to workplace health and safety, first aid and fire safety, and ladder safety.

The learning will enable learners to demonstrate an understanding of the topics listed below:

(b) List of Knowledge Topics:

TOPIC CODE	TOPIC TITLE	% OF TIME TO BE SPENT
KM-01-KT01	General health and safety principles	40
KM-01-KT02	Basic first aid and fire safety principles	40
KM-01-KT03	Ladder safety principles	20

(c) Detailing each topic listed above into topic elements:

KM-01-KT01: General health and safety principles 40%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0101	Health, safety and quality at the workplace	30
KT0102	Barricading	10
KT0103	Use of lifting equipment (for cables)	40
KT0104	Pre-task risk assessment	10
KT0105	Transportation of material, equipment, and people	10

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0101	Explain the importance of health, safety and quality at the workplace in relation to the OSH Act (85/93)	15
IAC0102	Identify the basic requirements in terms of Section 8, 9, 13, 14 and 15	15
IAC0103	Explain the correct methods of barricading	10

IAC0104	Explain the risks of not adhering to proper barricading	10
IAC0105	Explain the safety risks associated with lifting of heavy equipment	10
IAC0106	Explain the role of the electrician's assistant in terms of rigging operations	10
IAC0107	Explain the importance and role of pre-task risk assessment	10
IAC0108	Explain the importance of recording risks identified and how to mitigate them	10
IAC0109	Explain the risks and responsibilities of transportation of material, equipment, and people	10

KM-01-KT02: Basic first aid and fire safety principles 40%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0201	Life support and first aid procedures	50
KT0202	Fundamentals of fire safety	50

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0201	Explain the importance of maintaining personal safety in terms of preventing injuries to self and infectious diseases	5
IAC0202	Identify the methods of safeguarding the emergency scene in accordance with relevant practices and legislation.	5
IAC0203	Explain the importance of not moving an injured person	5
IAC0204	Describe the possible visible vital signs of an injured person and what could be done to reassure and calm the injured person	5
IAC0205	Explain the most important issues to consider, the most appropriate method, and correct procedure to control serious bleeding	10
IAC0206	List and explain the steps to be followed when dealing with electrocution (i.e. 1. Switch off the power supply, 2. Determine casualty's level of consciousness, 3. Check vital signs, 4. Cardiopulmonary resuscitation (CPR) and 5. Turn the casualty into the recovery position)	15

IAC0207	Explain what to do and what not to do in case of burns	5
IAC0208	Define fire and explain the fire triangle (triangle of combustion)	13
IAC0209	Explain how fires can be prevented or controlled	13
IAC0210	List and discuss the various classes of fire	7
IAC0211	Identify the signage for the different classes of fire	7
IAC0212	Explain the actions to be followed when catching on fire (i.e. stop, drop and roll)	10

KM-01-KT03: Ladder safety principles 20%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0301	Ladder safety principles	100

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0301	Explain the safety considerations when erecting a step ladder	25
IAC0302	Explain the safety considerations when erecting an extension ladder	25
IAC0303	Describe the safe working range when using a ladder	25
IAC0304	Describe the correct way of ascending and descending a ladder	25

3.1.2 Criteria for accreditation

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	<ul style="list-style-type: none"> Physical training facilities (or if using a hybrid or e-learning model – software or internet platform) conducive to hosting the number of learners comfortably and safely for the duration of this module. Facilities that meet the minimum requirements for the comfort of learners (ablutions, hand washing facilities, sheltered from the elements etc.) if relevant. All learning materials, lesson plans, workbooks, assessment guides to cover the related topics.
CONSUMABLES	<ul style="list-style-type: none"> None

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Qualification of lecturer/facilitator (SME): <ul style="list-style-type: none">• NQF 4 qualification related to health and safety• Registered as an Assessor.
FACILITATOR/LEARNER RATIO	1: maximum 20

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
	<ul style="list-style-type: none">• CIPC registered entity.• SARS Tax compliance• Compliant and current health and safety audit report.• Relevant labour legislation visible in facility or on platform (as required by current legislation).

Additional Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
	<ul style="list-style-type: none">• None.

3.1.3 Exemptions

None

3.2

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
900521-000-00-KM-02	Tools, equipment and electrical work	2	5	Face-to-face or blended

3.2.1 Module Details:

(a) Purpose of Knowledge Module:

The focus of the learning in this knowledge module is to build a basic understanding of the concepts of electricity and the tools and equipment required for performing electrical work.

The learning will enable learners to demonstrate an understanding of the topics listed below.

(b) List of Knowledge Topics:

TOPIC CODE	TOPIC TITLE	% OF TIME TO BE SPENT
KM-02-KT01	Tools, equipment and housekeeping	40
KM-02-KT02	Basic fundamentals of electricity	60

(c) Detailing each topic listed above into topic elements:

KM-02-KT01: Tools, equipment and housekeeping 40%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0101	Types, care and use of hand and power tools used for trenching, installation, wiring and termination	60
KT0102	Safe use of welding equipment	40

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0101	Identify and explain the correct use of hand and power tools for trenching, installation, wiring and termination	60
IAC0102	Identify and explain the safe use of Arc welding equipment	40

KM-02-KT02: Basic fundamentals of electricity 60%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0201	Types of electricity	20
KT0202	Basic concepts of electricity	20
KT0203	Electrical circuits	20
KT0204	Electrical safety (Introduction to SANS 10142-1, OSH Act 85/93 and related EIR and EMR)	40

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0201	Explain the difference between DC and AC electricity and the different phases single and 3 phase	10
IAC0202	Explain the difference between single phase and 3 phase electricity	10
IAC0203	Explain what is meant by voltage, current resistance and power	20
IAC0204	Explain the concept of an electrical circuit	10
IAC0205	Explain the difference between a parallel, series and combination circuits	10
IAC0206	Explain electrical safety requirements in terms of the OSH Act 85/93 and related regulations (EIR and EMR)	15
IAC0207	Explain your legal responsibilities and restrictions in terms of the legislation and regulations	10
IAC0208	Explain the purpose of SANS 10142-1 and the implications on your work	15

3.2.2 Criteria for accreditation

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	<ul style="list-style-type: none"> Physical training facilities (or if using a hybrid or e-learning model – software or internet platform) conducive to hosting the number of learners comfortably and safely for the duration of this module. Facilities that meet the minimum requirements for the comfort of learners (ablutions, hand washing facilities, sheltered from the elements etc.) if relevant. All learning materials, lesson plans, workbooks, assessment guides to cover the related topics.
CONSUMABLES	<ul style="list-style-type: none"> None

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Qualification of lecturer/facilitator (SME): <ul style="list-style-type: none"> NQF Level 4 Electrical Engineering related qualification.
FACILITATOR/LEARNER RATIO	1: maximum 20

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
	<ul style="list-style-type: none">• CIPC registered entity.• SARS Tax compliance• Compliant and current health and safety audit report.• Relevant labour legislation visible in facility or on platform (as required by current legislation).•

Additional Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
	<ul style="list-style-type: none">• None.

3.2.3 Exemptions

None

3.3

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
900521-000-00-KM-03	Wiring and cabling	2	4	Face-to-face or blended

3.1.1 Module Details:

(a) Purpose of Knowledge Module:

The focus of the learning in this knowledge module is to build an understanding of wiring and cabling operations.

The learning will enable learners to demonstrate an understanding of the topics listed below:

(b) List of Knowledge Topics:

TOPIC CODE	TOPIC TITLE	% OF TIME TO BE SPENT
KM-03-KT01	Wiring	30
KM-03-KT02	Wire ways	35
KM-03-KT03	Cabling	35

(c) Detailing each topic listed above into topic elements:

KM-03-KT01 Wiring 30%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0101	Surface wiring and imbedded wiring	20
KT0102	Colour coding, sizing and labelling	60
KT0103	Termination	20

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0101	Explain the difference between surface and imbedded wiring	10
IAC0102	Identify and list different installation methods and requirements for each	10
IAC0103	Identify colour coding and the usage of each colour into an electrical installation	10

IAC0104	Explain the importance of equipment labelling,	10
IAC0105	Explain the importance of core numbers	10
IAC0106	Explain the importance of cable numbers	10
IAC0107	Explain the importance of sizing of conductors	10
IAC0108	Explain the importance of number and types of wires per conduit	10
IAC0109	Explain the importance of correct termination of cables and cords	20

KM-03-KT02 Wire ways 35%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0201	Cable and cord installation methods	20
KT0202	Installing conduit into ceiling void	20
KT0203	Installing conduit into walls	15
KT0204	Conduit surface installation	20
KT0205	Installing conduit into concrete	15
KT0206	Installing draw wires	10

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0201	Explain the cable and cord installation methods	20
IAC0202	Explain how to install conduit into ceiling void	20
IAC0203	Explain how to install conduit into walls	15
IAC0204	Explain how to perform conduit surface installation	20
IAC0205	Explain how to install conduit into concrete	15
IAC0206	Explain how to install draw wires	10

KM-03-KT03 Cabling 35%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0301	Preventing cable damage during use and storage	30
KT0302	Tying down of cables (requirements intervals, number)	10

KT0303	Installation of cables with cable socks	10
KT0304	Pulling of cables	10
KT0305	Importance of cable labelling	10
KT0306	Termination	30

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0301	Explain how to prevent cable damage during use and storage	30
IAC0302	Explain how to tie down cables (requirements intervals, number)	10
IAC0303	Explain how to install cables with cable socks	10
IAC0304	Explain how to pull cables with the use of cable rollers	10
IAC0305	Explain the importance of cable labelling	10
IAC0306	Explain the importance of correct termination including glanding and the installation of lugs	30

3.3.2 Criteria for accreditation

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	<ul style="list-style-type: none"> Physical training facilities (or if using a hybrid or e-learning model – software or internet platform) conducive to hosting the number of learners comfortably and safely for the duration of this module. Facilities that meet the minimum requirements for the comfort of learners (ablutions, hand washing facilities, sheltered from the elements etc.) if relevant. All learning materials, lesson plans, workbooks, assessment guides to cover the related topics.
CONSUMABLES	<ul style="list-style-type: none"> None

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Qualification of lecturer/facilitator (SME): <ul style="list-style-type: none"> NQF Level 4 Electrical Engineering related qualification.
FACILITATOR/LEARNER RATIO	1: maximum 20

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
	<ul style="list-style-type: none">• CIPC registered entity.• SARS Tax compliance• Compliant and current health and safety audit report.• Relevant labour legislation visible in facility or on platform (as required by current legislation).

Additional Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
•	None.

3.2.3 Exemptions

None

4 Practical Skill Module (PM) Specifications:

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
900521-000-00-PM-01	Prepare trenches and lay underground cables	1	1	Face to face
900521-000-00-PM-02	Install above ground cables and cable support structures	2	4	Face to face
900521-000-00-PM-03	Install distribution boards/panels, boxes and fittings	2	1	Face to face
900521-000-00-PM-04	Install wire ways	1	4	Face to face
900521-000-00-PM-05	Conduct wiring and prepare basic drawings	2	1	Face to face
900521-000-00-PM-06	Terminate cables and wires	2	1	Face to face

4.1 Detailing Practical Module (PM) contents

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
900521-000-00-PM-01	Prepare trenches and lay underground cables	1	1	Face to face

4.1.1. Module Details

(a) Purpose of the Practical Skills Module:

The focus of the learning in this module is on providing the learner an opportunity to practice the skills required to conduct trenching and laying cables.

The learner will be required to perform the activities listed below:

(b) List of Practical Skill Activities:

PRACTICAL SKILL CODE	ACTIVITY TITLE
PM-01-PS01	Prepare the area and open the trench
PM-01-PS02	Prepare the trench and lay the cable
PM-01-PS03	Backfill and compact the trench

(c) Scope of each Practical Skill Activity:

PM-01-PS01: Prepare the area and open the trench	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE:	
Given excavation specifications, a worksite with obstacles, barricading, PPE (including hard hats, protective shoes, and gloves), excavating equipment (including picks and shovels) the learner must be able to perform the activities listed below.	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0101	Identify required tools, equipment and PPE
PA0102	Barricade the area
PA0103	Remove all obstructions
PA0104	Excavate to specifications
PA0105	Conduct housekeeping

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0101	Types and uses of barricading.

Internal Assessment Criteria (IAC) for the Practical Skill Activity

IAC CODE	IAC DESCRIPTION
IAC0101	The work area is appropriately barricaded for the task to be performed.
IAC0102	The trench is prepared as per specifications and the team actively supported.

PM-01-PS02: Prepare the trench and lay the cable	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE	
Given river sand, danger tape, cables, cable labels, shovels and diagonal cutters the learner must be able to perform the activities listed below.	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0201	Identify required tools, equipment and PPE
PA0202	Prepare the trench to remove objects that can damage the cable
PA0203	Prepare the trench with river sand for laying the cable
PA0204	Lay cable
PA0205	Label the cables

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0201	Cable laying techniques
AK0202	Trench preparation techniques
AK0203	Cable labelling principles

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0201	The trench is prepared and free of any objects that can damage the cable
IAC0202	The cable is laid and correctly labelled

PM-01-PS03: Backfill and compact the trench	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE	
Given cable markers, cable protection material, danger tape, sieves, compactors, and river sand the learner must be able to perform the activities listed below.	

PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0301	Close cable with river sand
PA0302	Install danger tape
PA0303	Sift the backfill material
PA0304	Close cable trench and compact in layers
PA0305	Install cable protection at end of trench
PA0306	Compact work area and install cable markers
PA0307	Clean up the work area and dispose of waste

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0301	Cable protection techniques
AK0302	Backfilling and compacting techniques

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0301	The cable is properly secured and marked
IAC0302	The trench is properly filled and compacted
IAC0303	The work site is cleared, all waste removed, and tools and equipment cleaned and returned

4.1.2. Criteria for accreditation

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	<ul style="list-style-type: none"> Physical training facilities (or if using a hybrid or e-learning model – software or internet platform) conducive to hosting the number of learners comfortably and safely for the duration of this module. Facilities that meet the minimum requirements for the comfort of learners (ablutions, hand washing facilities, sheltered from the elements etc.) if relevant. Record keeping systems to capture learner data and issue a statement of results. The provider must have practical guidebooks with clear instructions on activities (including templates). The provider must have excavation specifications, a worksite with obstacles, barricading, PPE (including hard hats, protective shoes, and gloves), excavating equipment (including picks and shovels),

	and hand tools (including diagonal cutters) as stated in the given statements. <ul style="list-style-type: none"> The provider must have logbooks/sheets to capture learner progress against the practical application activities.
CONSUMABLES	<ul style="list-style-type: none"> In addition, the provider must have excavation specifications, a danger tape, cables, cable labels, river sand, cable protection material

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Qualification of facilitator (SME): <ul style="list-style-type: none"> Qualified as an Electrician.
FACILITATOR/LEARNER RATIO	1: maximum 10

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
	<ul style="list-style-type: none"> CIPC registered entity. SARS Tax compliance Compliant and current health and safety audit report. Relevant labour legislation visible in facility or on platform (as required by current legislation).

Additional Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
	<ul style="list-style-type: none"> None.

4.1.3 Exemptions

None

4.2

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
900521-000-00-PM-02	Install above ground cables and cable support structures	2	4	Face to face

4.2.1. Module Details

(a) Purpose of the Practical Skills Module:

The focus of the learning in this module is on providing the learner an opportunity to practice the skills required to work with and care for cables.

The learner will be required to perform the activities listed below:

(b) List of Practical Skill Activities:

PRACTICAL SKILL CODE	ACTIVITY TITLE
PM-02-PS01	Modify and install cable support structures
PM-02-PS02	Handle, install, and store cables

(c) Scope of each Practical Skill Activity:

PM-02-PS01 Modify and install cable support structures	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE:	
Given cable support brackets, mild steel for customising brackets, power tools (including drilling machines and grinders), and hand tools (including hammers, pliers, spanners, diagonal cutters, hacksaw), arc welding machines and welding rods, nuts, bolts, washers, and spring washers the learner must be able to perform the activities listed below.	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0101	Identify required tools, equipment and PPE
PA0102	Customise cable support bracket using grinders and welding and drilling machines
PA0103	Install cable support
PA0104	Conduct housekeeping

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0101	Care for welding equipment
AK0102	Welding techniques
AK0103	Cable support structures

Internal Assessment Criteria (IAC) for the Practical Skill Activity

IAC CODE	IAC DESCRIPTION
IAC0101	A cable support structure is modified and installed and fit for purpose

PM-02-PS02 Handle, install and store cables	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE	
Given a cable drum with cable, cable stand, cable rollers, cable socks, power tools (including drilling machines and grinders), and hand tools (including hammers, pliers, spanners, diagonal cutters, hacksaw), cable ties, cable labels, nuts, bolts, washers, and spring washers the learner must be able to perform the activities listed below.	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0201	Identify required tools, equipment and PPE
PA0202	Handle and move cable drum
PA0203	Install cable stand
PA0204	Install cable rollers
PA0205	Install cable sock
PA0206	Pull cable
PA0207	Tie down cable (cable ties)
PA0208	Label cables
PA0209	Conduct housekeeping

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0201	Cable installation procedures

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0201	Above ground cables are correctly handled and stored

4.2.2. Criteria for accreditation

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	<ul style="list-style-type: none">Physical training facilities (or if using a hybrid or e-learning model – software or internet platform) conducive to hosting the number of learners comfortably and safely for the duration of this module.Facilities that meet the minimum requirements for the comfort of learners (ablutions, hand washing facilities, sheltered from the elements etc.) if relevant.Record keeping systems to capture learner data and issue a statement of results.The provider must have practical guidebooks with clear instructions on activities (including templates).The provider must have a cable drum with cable, cable stand, cable roller, power tools (including drilling machines and grinders), and hand tools (including hammers, pliers, spanners, diagonal cutters, hacksaw), arc welding machine as stated in the given statements.The provider must have logbooks/sheets to capture learner progress against the practical application activities.
CONSUMABLES	<ul style="list-style-type: none">In addition, the provider must have a cable support bracket, mild steel for customising brackets, welding rods, cable ties, cable markers, nuts, bolts, washers, and spring washers.

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Qualification of facilitator (SME): <ul style="list-style-type: none">Qualified as an Electrician.
FACILITATOR/LEARNER RATIO	1: maximum 10

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
	<ul style="list-style-type: none">CIPC registered entity.SARS Tax complianceCompliant and current health and safety audit report.Relevant labour legislation visible in facility or on platform (as required by current legislation).

Additional Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
	<ul style="list-style-type: none">• None.

4.2.3 Exemptions

None

4.3

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
900521-000-00-PM-03	Install distribution boards/panels, boxes and fittings	2	1	Face to face

4.3.1. Module Details

(a) Purpose of the Practical Skills Module:

The focus of the learning in this module is on providing the learner an opportunity to practice the skills required to prepare for and install distribution boards/panels, boxes and fittings in walls.

The learner will be required to perform the activities listed below:

(b) List of Practical Skill Activities:

PRACTICAL SKILL CODE	ACTIVITY TITLE
PM-03-PS01	Prepare the area
PM-03-PS02	Install distribution boards/panels, boxes and fittings

(c) Scope of each Practical Skill Activity:

PM-03-PS01: Prepare the area	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE:	
Given clear instructions with measurements, measuring tape, spirit level, broom or brush or vacuum cleaner, power tools (including drilling machines, hole saws, grinders), and hand tools (including hammers, chisels) drill bits the learner must be able to perform the activities listed below.	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0101	Identify required tools, equipment and PPE
PA0102	Measure and mark the area
PA0103	Grind out area to correct size and depth
PA0104	Clean the working area, tools and equipment used

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0101	Measuring techniques

Internal Assessment Criteria (IAC) for the Practical Skill Activity

IAC CODE	IAC DESCRIPTION
IAC0101	The area for installation is grinded out to the correct size, shape, and level

PM-03-PS02: Install distribution boards/panels, boxes and fittings	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE	
Given clear instructions with measurements, measuring tape, spirit level, broom or brush or vacuum cleaner, power tools (including drilling machines, hole saws, grinders), and hand tools (including screw drivers, hammers, chisels, pliers, spanners, diagonal cutters, hacksaw), distribution boards/panels, boxes and fittings, and drill bits the learner must be able to perform the activities listed below.	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0201	Identify required tools, equipment and PPE
PA0202	Fit distribution boards/panels, boxes and fittings
PA0203	Fasten distribution boards/panels, boxes and fittings
PA0204	Clean the working area tools and equipment

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0201	Fitting and fastening techniques

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0201	Distribution boards/panels, boxes and fittings are correctly fitted and look neat.
IAC0202	The working area is clean and free of dust and dirt

4.3.2. Criteria for accreditation**Physical Requirements:**

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	<ul style="list-style-type: none"> Physical training facilities (or if using a hybrid or e-learning model – software or internet platform) conducive to hosting the number of learners comfortably and safely for the duration of this module.

	<ul style="list-style-type: none"> Facilities that meet the minimum requirements for the comfort of learners (ablutions, hand washing facilities, sheltered from the elements etc.) if relevant. Record keeping systems to capture learner data and issue a statement of results. The provider must have practical guidebooks with clear instructions on activities (including templates). The provider must have clear instructions with measurements, measuring tape, spirit level, broom or brush or vacuum cleaner, power tools (including drilling machines, hole saws, grinders), and hand tools (including screw drivers, hammers, chisels, pliers, spanners, diagonal cutters, hacksaw) as stated in the given statements. The provider must have logbooks/sheets to capture learner progress against the practical application activities.
CONSUMABLES	<ul style="list-style-type: none"> In addition, the provider must have distribution boards/panels, boxes and fittings, and drill bits.

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Qualification of facilitator (SME): <ul style="list-style-type: none"> Qualified as an Electrician.
FACILITATOR/LEARNER RATIO	1: maximum 10

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
	<ul style="list-style-type: none"> CIPC registered entity. SARS Tax compliance Compliant and current health and safety audit report. Relevant labour legislation visible in facility or on platform (as required by current legislation).

Additional Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
	<ul style="list-style-type: none"> None.

4.3.3 Exemptions

None

4.4

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
900521-000-00-PM-04	Install wire ways	1	4	Face to face

4.4.1. Module Details

(a) Purpose of the Practical Skills Module:

The focus of the learning in this module is on providing the learner an opportunity to practice the skills required to prepare and install conduit and draw wires.

The learner will be required to perform the activities listed below:

(b) List of Practical Skill Activities:

PRACTICAL SKILL CODE	ACTIVITY TITLE
PM-04-PS01	Prepare conduit
PM-04-PS02	Install conduit and draw wires

(c) Scope of each Practical Skill Activity:

PM-04-PS01: Prepare conduit	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE:	
Given clear instructions, PVC and metal conduit, draw boxes, hand tools (including hammers, hack saw, screw driver, diagonal cutters, pliers, hickey and bending spring) power tools (including drilling machine), screws, saddles, fisher plugs, and drill bits the learner must be able to perform the activities listed below.	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0101	Identify required tools, equipment and PPE
PA0102	Bend PVC conduit
PA0103	Bend metal conduit
PA0104	Install draw boxes
PA0105	Clean work area, tool and equipment, and dispose of waste

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0101	Metal and PVC bending techniques

Internal Assessment Criteria (IAC) for the Practical Skill Activity

IAC CODE	IAC DESCRIPTION
IAC0101	Metal is bended according to specifications
IAC0102	PVC is bended according to specifications

PM-04-PS02 Install conduit and draw wires	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE	
Given clear instructions, PVC and metal conduit, hand tools (including hammers, hack saw, screw driver, diagonal cutters, pliers), power tools (including drilling machine), screws, saddles, fisher plugs, draw wire, and drill bits the learner must be able to perform the activities listed below.	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0201	Identify required tools, equipment and PPE
PA0202	Install conduit
PA0203	Install draw wires
PA0204	Clean work area, tool and equipment, and dispose of waste

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0201	Conduit installation methods

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0201	Conduit and draw wire is neatly installed.

4.4.2. Criteria for accreditation

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	<ul style="list-style-type: none">Physical training facilities (or if using a hybrid or e-learning model – software or internet platform) conducive to hosting the number of learners comfortably and safely for the duration of this module.Facilities that meet the minimum requirements for the comfort of learners (ablutions, hand washing facilities, sheltered from the elements etc.) if relevant.Record keeping systems to capture learner data and issue a statement of results.The provider must have practical guidebooks with clear instructions on activities (including templates).The provider must have clear instructions, hand tools (including hammers, hack saw, screw driver, diagonal cutters, pliers, hickey and bending spring), power tools (including drilling machine), as stated in the given statements.
CONSUMABLES	<ul style="list-style-type: none">In addition, the provider must have PVC and metal conduit, screws, saddles, fisher plugs, draw wire, and drill bits.

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Qualification of facilitator (SME): <ul style="list-style-type: none">Qualified as an Electrician.
FACILITATOR/LEARNER RATIO	1: maximum 10

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
	<ul style="list-style-type: none">CIPC registered entity.SARS Tax complianceCompliant and current health and safety audit report.Relevant labour legislation visible in facility or on platform (as required by current legislation).

Additional Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
	<ul style="list-style-type: none">None.

4.4.3 Exemptions

None

4.5

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
900521-000-00-PM-05	Conduct wiring and prepare basic drawings	2	1	Face to face

4.5.1. Module Details

(a) Purpose of the Practical Skills Module:

The focus of the learning in this module is on providing the learner an opportunity to practice the skills required to size and draw wires and prepare basic drawings.

The learner will be required to perform the activities listed below:

(b) List of Practical Skill Activities:

PRACTICAL SKILL CODE	ACTIVITY TITLE
PM-05-PS01	Size and draw wires
PM-05-PS02	Prepare basic drawings of installations

(c) Scope of each Practical Skill Activity:

PM-05-PS01: Size and draw wires	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE:	
Given tools (including pliers, diagonal cutters, crimping tools, heat gun or blow torch) cables and cores, lugs and ferules, heat shrink, electrician tape and fish tape the learner must be able to perform the activities listed below.	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0101	Identify required tools, equipment and PPE
PA0102	Size wires
PA0103	Attach wires to drawstring
PA0104	Draw wires
PA0105	Perform housekeeping

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0101	Technique for drawing wires

Internal Assessment Criteria (IAC) for the Practical Skill Activity

IAC CODE	IAC DESCRIPTION
IAC0101	Wires are correctly drawn and meet specifications

PM-05-PS02: Prepare basic drawings of installations	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE	
Given a pen and paper, the learner must be able to perform the activities listed below.	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0201	Prepare basic diagrams of wiring completed

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0201	Basic drawing techniques

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0201	A basic diagram is drawn to show where wires are coming from and where it needs to be connected

4.5.2. Criteria for accreditation**Physical Requirements:**

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	<ul style="list-style-type: none"> Physical training facilities (or if using a hybrid or e-learning model – software or internet platform) conducive to hosting the number of learners comfortably and safely for the duration of this module. Facilities that meet the minimum requirements for the comfort of learners (ablutions, hand washing facilities, sheltered from the elements etc.) if relevant. Record keeping systems to capture learner data and issue a statement of results. The provider must have practical guidebooks with clear instructions on activities (including templates). The provider must have tools (including pliers, diagonal cutters, crimping tools, heat gun or blow torch) as stated in the given statements.

CONSUMABLES	<ul style="list-style-type: none"> In addition, the provider must have cables and cores, lugs and ferules, heat shrink, electrician tape and fish tape, pen and paper
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Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Qualification of facilitator (SME): <ul style="list-style-type: none"> Qualified as an Electrician
FACILITATOR/LEARNER RATIO	1: maximum 10

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
	<ul style="list-style-type: none"> CIPC registered entity. SARS Tax compliance Compliant and current health and safety audit report. Relevant labour legislation visible in facility or on platform (as required by current legislation).

Additional Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
	<ul style="list-style-type: none"> None.

4.5.3 Exemptions

None

4.6

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
900521-000-00-PM-06	Terminate cables and wires	2	1	Face to face

4.6.1. Module Details

(a) Purpose of the Practical Skills Module:

The focus of the learning in this module is on providing the learner an opportunity to practice the skills required to terminate wires and cables

The learner will be required to perform the activities listed below:

(b) List of Practical Skill Activities:

PRACTICAL SKILL CODE	ACTIVITY TITLE
PM-06-PS01	Terminate wires and cables

(c) Scope of each Practical Skill Activity:

PM-06-PS01: Terminate wires and cables	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE:	
Given lugs, bootlace ferrules, cable cutter, crimping tools, utility knife, and cable cutter, the learner must be able to perform the activities listed below.	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0101	Identify required tools, equipment and PPE
PA0102	Gland cables
PA0103	Install lugs and bootlace ferrules
PA0104	Group and mark wires
PA0105	Perform housekeeping

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0101	Termination techniques

Internal Assessment Criteria (IAC) for the Practical Skill Activity

IAC CODE	IAC DESCRIPTION
IAC0101	Wires and cables are correctly terminated, grouped and marked

4.6.2. Criteria for accreditation

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	<ul style="list-style-type: none">Physical training facilities (or if using a hybrid or e-learning model – software or internet platform) conducive to hosting the number of learners comfortably and safely for the duration of this module.Facilities that meet the minimum requirements for the comfort of learners (ablutions, hand washing facilities, sheltered from the elements etc.) if relevant.Record keeping systems to capture learner data and issue a statement of results.The provider must have practical guidebooks with clear instructions on activities (including templates).The provider must have lugs, bootlace ferrules, cable cutter, crimping tools, utility knife, and cable cutter as stated in the given statements.
CONSUMABLES	<ul style="list-style-type: none">In addition, the provider must have lugs and bootlace ferrules.

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Qualification of facilitator: <ul style="list-style-type: none">Qualified as an Electrician
FACILITATOR/LEARNER RATIO	1: maximum 10

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
	<ul style="list-style-type: none">CIPC registered entity.SARS Tax complianceCompliant and current health and safety audit report.Relevant labour legislation visible in facility or on platform (as required by current legislation).

Additional Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
	<ul style="list-style-type: none">None.

4.6.3 Exemptions

None

5 POSSIBLE SEQUENCING AND INTEGRATION

Listing and order of modules in the sequence in which these modules will follow each other during delivery/implementation. This allows for integration of KM, AM (PM/ WM) as work logically flows.

ORDER	MODULE TITLE	MODULE CODE	LEVEL	CREDITS
1.	Workplace health and safety	900521-000-00-KM-01	2	8
2.	Tools, equipment and electrical work	900521-000-00-KM-02	2	5
3.	Prepare trenches and lay underground cables	900521-000-00-PM-01	1	1
4.	Install above ground cables and cable support structures	900521-000-00-PM-02	2	4
5.	Install distribution boards/panels, boxes and fittings	900521-000-00-PM-03	2	1
6.	Wiring and cabling	900521-000-00-KM-03	2	4
7.	Install wire ways	900521-000-00-PM-04	1	4
8.	Conduct wiring and prepare basic drawings	900521-000-00-PM-05	2	1
9.	Terminate cables and wires	900521-000-00-PM-06	2	1