



Model Curriculum

QP Name: Assistant Technician - Smart Meter

QP Code: ELE/Q5905

QP Version: 2.0

NSQF Level: 3

Model Curriculum Version: 2.0

Electronics Sector Skills Council of India | | 155, 2nd Floor ESC House, Okhla Industrial Area – Phase 3, New Delhi - 110020

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Training Parameters

Sector	Electronics
Sub-Sector	Consumer Electronics and IT Hardware
Occupation	Installation-S&L
Country	India
NSQF Level	3
Aligned to NCO/ISCO/ISIC Code	NCO-2015/9623.0300
Minimum Educational Qualification and Experience	10th Grade or equivalent OR 8th Grade + 3 years of relevant experience Certificate NSQF (Level 2 in relevant domain) + 1.5 years of relevant experience # Relevant Experience in Electronics Domain
Pre-Requisite License or Training	NA
Minimum Job Entry Age	18 Years
Last Reviewed On	12.03.2026
Next Review Date	12.03.2029
NSQC Approval Date	12.03.2026
QP Version	2.0
Model Curriculum Creation Date	12.03.2026
Model Curriculum Valid Up to Date	12.03.2029
Model Curriculum Version	2.0
Minimum Duration of the Course	420 Hours
Maximum Duration of the Course	420 Hours

Program Overview

This section summarizes the end objectives of the program along with its duration.

Training Outcomes

At the end of the program, the learner should have acquired the listed knowledge and skills.

- Perform preparatory activities such as selection and inspection of tools and equipment etc.
- Perform installation and testing of energy meter.
- Perform installation and testing of water meter.
- Perform installation and testing of gas meter.
- Comply with the health and safety practices followed in the organization.

Compulsory Modules

The table lists the modules and their duration corresponding to the Compulsory NOS of the QP.

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
ELE/N5908 - Installation and troubleshoot of smart energy meter NOS Version No. 2 NSQF Level: 3	30:00	60:00	30:00	00:00	120:00
Module 1: Introduction to the role of Assistant Technician – Smart Meter	05:00	00:00	00:00	00:00	05:00
Module 2: Install smart energy meter	25:00	60:00	30:00	00:00	115:00
ELE/N5909 - Installation and troubleshoot of smart water meter NOS Version No. 2 NSQF Level: 3	30:00	60:00	30:00	00:00	120:00
Module 3: Install smart water meter	30:00	60:00	30:00	00:00	120:00
ELE/N5910 - Installation and troubleshoot of gas meter NOS Version No. 2 NSQF Level: 3	30:00	60:00	30:00	00:00	120:00
Module 4: Install smart gas meter	30:00	60:00	30:00	00:00	120:00
ELE/N1007: Apply health and safety practices at the workplace NOS Version No. 1 NSQF Level: 3	15:00	15:00	00:00	00:00	30:00
Module 5: Basic Health and Safety Practices	15:00	15:00	00:00	00:00	30:00
DGT/VSQ/N0101 - Employability Skills (30 hours) NOS Version No. 1 NSQF Level: 3	30:00	00:00	00:00	00:00	30:00

Module 6: Introduction to Employability Skills	03:00	00:00	00:00	00:00	03:00
Module 7: Constitutional values – Citizenship	03:00	00:00	00:00	00:00	03:00
Module 8: Becoming a Professional in the 21st Century	02:00	00:00	00:00	00:00	02:00
Module 9: Basic English Skills	03:00	00:00	00:00	00:00	03:00
Module 10: Communication Skills	02:00	00:00	00:00	00:00	02:00
Module 11: Diversity & Inclusion	03:00	00:00	00:00	00:00	03:00
Module 12: Financial and Legal Literacy	03:00	00:00	00:00	00:00	03:00
Module 13: Essential Digital Skills	03:00	00:00	00:00	00:00	03:00
Module 14: Entrepreneurship	02:00	00:00	00:00	00:00	02:00
Module 15: Customer Service	03:00	00:00	00:00	00:00	03:00
Module 16: Getting ready for apprenticeship & Jobs	03:00	00:00	00:00	00:00	03:00
Total Duration	135:00	195:00	90:00	00:00	420:00

Module Details

Module 1: Introduction to the role of Assistant Technician - Smart Meter

Mapped to ELE/Q5908 &V2.0

Terminal Outcomes:

- List the role and responsibilities of an Assistant Technician - Smart Meter.

Duration: 05:00	Duration: 00:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> Describe the size and scope of the electronics industry and its various sub- sectors. Discuss the various opportunities for a Smart Meters - Technician in the industry. Define the basics of electronics and related concepts. Discuss the role and responsibilities of a Smart Meters - Technician. Describe fundamentals of electricity such as ohms law, difference between AC and DC etc. 	
Classroom Aids:	
Laptop, white board, marker, projector	
Tools, Equipment and Other Requirements	
Voltmeter, Ammeter, Wattmeter, basic components	

Module 2: Install smart energy meter

Mapped to ELE/N5908 &V2.0

Terminal Outcomes:

- Identify tools and equipment required for installation and replacement of energy meter.
- Perform installation of energy meter at consumer's premises.
- Perform replacement of defective meter to tested meter.

Duration: 25:00	Duration: 60:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Explain the basic electrical laws used in installations, including Ohm's Law, Kirchhoff's Voltage Law (KVL) and Kirchhoff's Current Law (KCL). • Recall commonly used electrical terminology in the industry. • Identify standard symbols used for electrical components. • State electrical units such as kVA and kWh used to measure energy parameters. • Describe the types, specifications, selection criteria and applications of consumer energy meters, including single-phase, three-phase, CT, HT, AMR and AMI meters. • Describe the key components of a consumer energy meter and their functions. • Discuss the relevance of BIS, BS, IEC standards and CEA Regulations 2006 for meter installation, operation and maintenance. • Recall BIS requirements related to consumer energy meters. • Discuss the site information and technical details required before installing a smart energy meter, including communication feasibility. • List the tools and equipment required for meter installation, including essential devices for smart meter communication checks. • Explain the selection criteria for tools and equipment based on the task. • Summarize the steps for checking the condition and readiness of tools and equipment before use. • Discuss the common reasons for replacing an energy meter, including no-read issues or communication failures. 	<ul style="list-style-type: none"> • Show how to collect consumer details from the authorized source before starting the installation. • Demonstrate the correct use of the tools and equipment required for the job as per organizational procedures. • Check all tools and equipment for condition, safety and calibration before use. • Check the distance between poles, cables and the layout of overhead lines as needed for meter installation work. • Identify the valid reasons for changing or replacing an energy meter. • Locate the suitable area inside or outside the customer's premises for meter installation, testing, commissioning, reading and maintenance. • Inspect the facility's wiring system to identify risks such as looping of phase or common phase issues. • Install or replace the energy meter and the required supportive equipment using the correct techniques. • Verify that the meter is the correct type, approved, examined and tested before installation. • Apply anti-tampering measures and check immunity against external influences as per regulations and organizational standards. • Check the meter for possible earth leakage as per CEA Regulations, 2006. • Test and calibrate the installed or replaced energy meter as per standard procedures. • Verify that all replaced or repaired equipment is working properly after completion of the task.

<ul style="list-style-type: none"> • Discuss the checks to be completed before installing or replacing an energy meter, including RF/4G/NB-IoT signal validation and module/SIM status. • Explain the precautions needed to avoid hazards and accidents during installation, testing and commissioning. • List the steps for installing the energy meter and required supportive equipment. • Discuss the purpose and operation of anti-tampering features in smart energy meters. • Describe the external factors such as magnetic fields, vibration, electrostatic discharge, surge voltages and harmonics that may affect meter performance. • Describe methods used for testing and calibrating the energy meter, including verification of digital readings and AMI/AMR sync. • Discuss the consumer and meter-related information that must be recorded and maintained, including device ID, communication status and geotagged installation proof. 	
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<p>Classroom Aids:</p>
<p>Whiteboard, marker pen, computer or laptop attached to LCD projector, scanner, computer speakers</p>
<p>Tools, Equipment and Other Requirements</p>
<p>Different types of energy meter - single phase meter and three phase meter, CT meter and HT meters, AMR or AMI meters Screw driver, combination plier, phase tester, digital multimeter, clip on meter, megger etc. Consumer meter testing with field calibrator, primary injection set for testing Various anti tampering material in meter viz Magnets, DC injectors, electrostatic discharge etc.</p>

Module 3: Install smart water meter

Mapped to ELE/N5909 & V2.0

Terminal Outcomes:

- Identify tools and equipment required for installation and replacement of water meter.
- Perform installation of water meter at consumer's premises.
- Perform replacement of defective meter to tested meter.

Duration: 30:00	Duration: 60:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Describe the types, specifications, selection criteria and uses of consumer water meters such as Positive Displacement meters, Velocity Flow meters, Electromagnetic meters and Ultrasonic meters. • Explain the main components of a consumer water meter and their functions. • Recall the Bureau of Indian Standards (BIS) applicable to water meters. • Discuss the information and site details required for installing a smart water meter at a customer location. • List the tools and equipment needed for water meter installation work. • Explain how to select the right tools and equipment for different installation tasks. • Summarize the checks to be performed on tools and equipment before use. • Discuss the common reasons for changing or replacing a water meter. • Explain the checks that must be carried out before installing or replacing a water meter. • Discuss the precautions needed to avoid hazards and accidents during installation, testing and commissioning of water meters. • List the steps involved in installing a water meter and any required supportive equipment. • Explain the need for anti-tampering features in water meters. • Describe external factors that may affect the accuracy or performance of a water meter. • Describe the methods used for testing and calibrating water meters. • Discuss the information and consumer-related data that must be recorded and maintained for water meter installation and service history. 	<ul style="list-style-type: none"> • Show how to obtain consumer details and site information from the authorized source for installation work. • Demonstrate the organization-approved procedure for using tools, equipment and the mobile app/handheld device. • Apply correct methods to check tools, equipment and digital devices before use. • Check the main water line and installation space to ensure proper alignment and safe access. • Identify valid reasons for changing or replacing the water meter. • Locate the suitable installation area near the main water line and confirm accessibility for installation, commissioning, remote reading verification and maintenance. • Use proper techniques to install or replace the smart water meter and required fittings. • Verify that the smart water meter is tested, configured and ready for commissioning. • Activate and verify anti-tampering features as per standards and organizational procedures. • Perform leakage tests to confirm that pipe connections are secure and leak-free. • Test and calibrate the smart water meter using approved procedures. • Validate IoT communication, sensor readings and AMR/AMI sync through the mobile app or handheld device. • Check that replaced or repaired equipment works correctly and resolves the customer's issue. • Escalate unresolved issues to the appropriate authority with proper documentation. • Record meter details digitally, including device ID, parameters and geotagged

	<p>photos.</p> <ul style="list-style-type: none"> • Verify the accuracy of the recorded meter data through digital-physical reading comparison.
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Classroom Aids:

Whiteboard, marker pen, computer or laptop attached to LCD projector, scanner, computer speakers

Tools, Equipment and Other Requirements

Different types of water meter - Positive Displacement Meters (PD Meters), Velocity Flow Meters, Electromagnetic Water Meters and Ultrasonic Water Meters
Screwdriver, combination plier, pipe wrench, electric drill, drill bits, spanner set, Consumer meter testing kit
Various anti tampering material in meter viz Magnets, DC injectors, electrostatic discharge etc.

Module 4: Install smart gas meter

Mapped to ELE/N5910 &V2.0

Terminal Outcomes:

- Identify tools and equipment required for installation and replacement of gas meter.
- Perform installation of gas meter at consumer's premises.
- Perform replacement of defective meter to tested meter.

Duration: 30:00	Duration: 60:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Describe the types, specifications, selection criteria and uses of consumer gas meters such as diaphragm (bellows), rotary, turbine, orifice and ultrasonic smart meters. • Explain the major components of a consumer gas meter and their functions, including communication modules and sensors used in smart gas meters. • Recall the relevant Bureau of Indian Standards (BIS) and regulatory requirements for domestic and industrial gas meters. • Discuss the information, documentation and site requirements needed before installing a smart gas meter at the customer premises. • List the tools, safety equipment and digital devices required during installation and commissioning work. • Explain how to choose the appropriate tools and devices based on meter type, pipe material and installation conditions. • Summarise the steps for checking tools, leak-testing equipment and handheld/mobile devices before use. • Discuss valid reasons for changing or replacing a gas meter, including malfunction, leakage, incorrect readings and communication failure. • Discuss pre-installation checks such as pipeline condition, shut-off valve availability, communication network strength and site accessibility. • Describe necessary precautions to avoid hazards and accidents during gas meter installation, leak testing and commissioning activities. • List the steps for installing or replacing the smart gas meter and its supportive equipment, including IoT module configuration. 	<ul style="list-style-type: none"> • Show how to obtain consumer details and installation approval from the concerned authority. • Demonstrate the correct use of organizationally approved tools, safety gear and digital devices. • Apply proper methods to check tools, leak-testing devices and handheld/mobile apps before use. • Verify the condition and layout of the main gas line and confirm that the selected installation site is safe and accessible. • Identify valid reasons for replacing the gas meter, including malfunction, leakage or incorrect readings. • Locate the appropriate installation area and assess risks related to accessibility, ventilation and commissioning. • Employ correct installation techniques to mount and connect the smart gas meter and supportive fittings. • Demonstrate how to drill the wall safely and route the pipeline inside the kitchen as per requirement. • Apply proper methods to measure, cut and prepare pipes for installation. • Show how to mount the gas meter securely and connect it to the main pipeline and user appliance. • Verify that the smart gas meter is correct, tested, and compliant with standards. • Demonstrate how to activate and verify anti-tampering features such as magnetic, tilt or cover tamper alerts. • Perform leak testing using approved methods and ensure there is no leakage in the connections. • Test and calibrate the smart gas meter using appropriate testing devices and

<ul style="list-style-type: none"> • Explain the need for anti-tampering features such as tilt detection, magnetic tamper alerts, cover opening alerts and communication tamper logs. • Describe external factors that can affect meter performance, such as vibration, dust, temperature variations, pressure fluctuations and magnetic interference. • Describe approved methods for testing, leak checking and calibrating the smart gas meter. • Discuss the type of information and digital data to be recorded, including device ID, network parameters, geotagged installation proof, tamper log status and initial reading sync. 	<p>mobile/handheld applications.</p> <ul style="list-style-type: none"> • Check the functioning of the replaced meter and ensure the customer's issue is fully resolved. • Follow the escalation process for unresolved or complex situations. • Show how to record meter data, device ID, communication status and geotagged proof through digital tools. • Verify the accuracy of recorded gas meter data and confirm physical–digital reading match.
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Classroom Aids:

Whiteboard, marker pen, computer or laptop attached to LCD projector, scanner, computer speakers

Tools, Equipment and Other Requirements

Different types of gas meter - Diaphragm/bellows meters, Rotary meters, Turbine meters, Orifice meters and Ultrasonic flow meters

Screw driver, combination plier, pipe wrench, electric drill, drill bits, spanner set, Consumer meter testing kit

Various anti tampering material in meter viz Magnets, DC injectors, electrostatic discharge etc.

Module 5: Basic Health and Safety Practices

Mapped to ELE/N1007 & V1.0

Terminal Outcomes:

- Apply health and safety practices at the workplace.

Duration: 15:00	Duration: 15:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Discuss job-site hazards, risks and accidents. • Explain the organizational safety procedures for maintaining electrical safety, handling tools and hazardous materials. • Elaborate electronic waste disposal procedures. • Describe the process of disposal of hazardous waste • List the name and location of concerned people, documents and equipment for maintaining health and safety in the workplace. • Describe how to interpret warning signs while accessing sensitive work areas. • Explain the importance of good housekeeping. • Describe the importance of maintaining appropriate postures while lifting heavy objects. • List the types of fire and fire extinguishers. • Explain the importance of efficient utilisation of water, electricity and other resources. • List the common sources of pollution and ways to minimize it. • Describe the concept of waste management and methods of disposing hazardous waste. • Explain various warning and safety signs. • Describe different ways of preventing accidents at the 	<ul style="list-style-type: none"> • Demonstrate the use of protective equipment suitable as per tasks and work conditions. • Prepare a report to inform the relevant authorities about any abnormal situation/behaviour of any equipment/system. • Administer first aid in case of a minor accident. • Demonstrate the steps to free a person from electrocution safely. • Administer Cardiopulmonary Resuscitation (CPR). • Demonstrate the application of defined emergency procedures such as raising alarm, safe/efficient, evacuation, moving injured people, etc. • Prepare a sample incident report. • Use a fire extinguisher in case of a fire incident. • Demonstrate the correct method of lifting and handling heavy objects.
Classroom Aids	
Training kit (Trainer guide, Presentations), White board, Marker, projector, laptop, flipchart.	
Tools, Equipment and Other Requirements	
Personal Protection Equipment: safety glasses, head protection, rubber gloves, safety footwear, warning signs and tapes, fire extinguisher, first aid kit, fire extinguishers and warning signs.	

Module 6: Introduction to Employability Skills

Mapped to DGT/VSQ/N0101 & V1.0

Terminal Outcomes:

- Discuss about Employability Skills in meeting the job requirements

Duration: <03:00>	Duration: <00:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Discuss the importance of Employability Skills in meeting the job requirements 	
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Module 7: Constitutional values - Citizenship

Mapped to DGT/VSQ/N0101 & V1.0

Terminal Outcomes:

- Discuss about constitutional values to be followed to become a responsible citizen

Duration: <03:00>	Duration: <00:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Explain constitutional values, civic rights, duties, citizenship, responsibility towards society etc. that are required to be followed to become a responsible citizen. 	
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Module 8: Becoming a Professional in the 21st Century

Mapped to DGT/VSQ/N0101 & V1.0

Terminal Outcomes:

- Demonstrate professional skills required in 21st century

Duration: <02:00>	Duration: <00:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Discuss 21st century skills. 	
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Module 9: Basic English Skills

Mapped to DGT/VSQ/N0101 & V1.0

Terminal Outcomes:

- Practice basic English speaking.

Duration: <03:00>	Duration: <00:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Discuss need of basic English skills. 	
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Module 10: Communication Skills

Mapped to DGT/VSQ/N0101 & V1.0

Terminal Outcomes:

- Practice basic communication skills.

Duration: <02:00>	Duration: <00:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Discuss need of communication skills • Describe importance of team work 	
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Module 11: Diversity & Inclusion

Mapped to DGT/VSQ/N0101 & V1.0

Terminal Outcomes:

- Describe PwD and gender sensitisation.

Duration: <03:00>	Duration: <00.00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> Discuss the significance of reporting sexual harassment issues in time 	
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Module 12: Financial and Legal Literacy

Mapped to DGT/VSQ/N0101 & V1.0

Terminal Outcomes:

- Describe ways of managing expenses, income, and savings.

Duration: <03:00>	Duration: <00:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> Discuss the significance of using financial products and services safely and securely. Explain the importance of managing expenses, income, and savings. Explain the significance of approaching the concerned authorities in time for any exploitation as per legal rights and laws 	<ul style="list-style-type: none"> Demonstrate ways of managing expenses, income, and savings.
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Module 13: Essential Digital Skills

Mapped to DGT/VSQ/N0101 & V1.0

Terminal Outcomes:

- Demonstrate procedure of operating digital devices and associated applications safely.

Duration: <03:00>	Duration: <00:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Discuss the significance of using internet for browsing, accessing social media platforms, safely and securely 	
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Module 14: Entrepreneurship

Mapped to DGT/VSQ/N0101 & V1.0

Terminal Outcomes:

- Describe opportunities as an entrepreneur.

Duration: <02:00>	Duration: <00:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> Discuss the need for identifying opportunities for potential business, sources for arranging money and potential legal and financial challenges 	
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Module 15: Customer Service

Mapped to DGT/VSQ/N0101 & V1.0

Terminal Outcomes:

- Describe ways of maintaining customer.

Duration: <03:00>	Duration: <00:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> Differentiate between types of customers. Explain the significance of identifying customer needs and addressing them. Discuss the significance of maintaining hygiene and dressing appropriately. 	
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Module 16: Getting ready for apprenticeship & Jobs

Mapped to DGT/VSQ/N0101 & V1.0

Terminal Outcomes:

- Describe ways of preparing for apprenticeship & Jobs appropriately.

Duration: <03:00>	Duration: <00:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> Discuss the significance of dressing up neatly and maintaining hygiene for an interview Discuss how to search and register for apprenticeship opportunities 	
Classroom Aids:	
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	

Annexure

Trainer Requirements

Trainer Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training Experience		Remarks
		Years	Specialization	Years	Specialization	
BE/ BTech	Electrical/ Mechanical/ Electronics	1	Smart meters installation and repair	1	Trainer	
Diploma/ITI	Electrical/ Mechanical/ Electronics	2	Smart meters installation and repair	1	Trainer	
Certified in relevant CITS Trade						

Trainer Certification	
Domain Certification	Platform Certification
“Assistant Technician - Smart Meter, ELE/Q5905, version 2.0”. Minimum accepted score is 80%.	Recommended that the Trainer is certified for the Assistant Technician – Smart Meter “Trainer (VET and Skills)”, mapped to the Qualification Pack: “MEP/Q2601, V2.0”, with minimum score of 80%

Assessor Requirements

Assessor Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training/Assessment Experience		Remarks
		Years	Specialization	Years	Specialization	
BE/ BTech	Electrical/ Mechanical/ Electronics	2	Smart meters installation and repair	2	Assessor	
Diploma/ITI	Electrical/ Mechanical/ Electronics	3	Smart meters installation and repair	2	Assessor	
Certified in relevant CITS Trade						

Assessor Certification	
Domain Certification	Platform Certification
“Assistant Technician - Smart Meter, ELE/Q5905, version 2.0”. Minimum accepted score is 80%.	Recommended that the Assessor is certified for the Assistant Technician – Smart Meter “Assessor (VET and Skills)” , mapped to the Qualification Pack: “MEP/Q2701, V2.0”, with minimum score of 80%

Assessment Strategy

1. Assessment System Overview:
 - Batches assigned to the assessment agencies for conducting the assessment on SDMS/SIP or email
 - Assessment agencies send the assessment confirmation to VTP/TC looping SSC
 - Assessment agency deploys the ToA certified Assessor for executing the assessment
 - SSC monitors the assessment process & records
2. Testing Environment:
 - Confirm that the centre is available at the same address as mentioned on SDMS or SIP
 - Check the duration of the training.
 - Check the Assessment Start and End time to be as 10 a.m. and 5 p.m.
 - If the batch size is more than 30, then there should be 2 Assessors.
 - Check that the allotted time to the candidates to complete Theory & Practical Assessment is correct.
 - Check the mode of assessment—Online (TAB/Computer) or Offline (OMR/PP).
 - Confirm the number of TABs on the ground are correct to execute the Assessment smoothly.
 - Check the availability of the Lab Equipment for the particular Job Role.
3. Assessment Quality Assurance levels / Framework:
 - Question papers created by the Subject Matter Experts (SME)
 - Question papers created by the SME verified by the other subject Matter Experts
 - Questions are mapped with NOS and PC
 - Question papers are prepared considering that level 1 to 3 are for the unskilled & semi-skilled individuals, and level 4 and above are for the skilled, supervisor & higher management
 - Assessor must be ToA certified & trainer must be ToT Certified
 - Assessment agency must follow the assessment guidelines to conduct the assessment
4. Types of evidence or evidence-gathering protocol:
 - Time-stamped & geotagged reporting of the assessor from assessment location
 - Centre photographs with signboards and scheme specific branding
 - Biometric or manual attendance sheet (stamped by TP) of the trainees during the training period
 - Time-stamped & geotagged assessment (Theory + Viva + Practical) photographs & videos
5. Method of verification or validation:
 - Surprise visit to the assessment location
 - Random audit of the batch
 - Random audit of any candidate
6. Method for assessment documentation, archiving, and access
 - Hard copies of the documents are stored
 - Soft copies of the documents & photographs of the assessment are uploaded / accessed from Cloud Storage
 - Soft copies of the documents & photographs of the assessment are stored in the Hard Drives

References

Glossary

Sector	Sector is a conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
Occupation	Occupation is a set of job roles, which perform similar/ related set of functions in an industry.
Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organisation.
Occupational Standards (OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the Knowledge and Understanding (KU) they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
Performance Criteria (PC)	Performance Criteria (PC) are statements that together specify the standard of performance required when carrying out a task.
National Occupational Standards (NOS)	NOS are occupational standards which apply uniquely in the Indian context.
Qualifications Pack (QP)	QP comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications pack code.
Unit Code	Unit code is a unique identifier for an Occupational Standard, which is denoted by an 'N'
Unit Title	Unit title gives a clear overall statement about what the incumbent should be able to do.
Description	Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.
Scope	Scope is a set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on quality of performance required.

Knowledge and Understanding (KU)	Knowledge and Understanding (KU) are statements which together specify the technical, generic, professional and organisational specific knowledge that an individual needs in order to perform to the required standard.
Organisational Context	Organisational context includes the way the organisation is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
Technical Knowledge	Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
Core Skills/ Generic Skills (GS)	Core skills or Generic Skills (GS) are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles.
Electives	Electives are NOS/set of NOS that are identified by the sector as contributive to specialization in a job role. There may be multiple electives within a QP for each specialized job role. Trainees must select at least one elective for the successful completion of a QP with Electives.
Options	Options are NOS/set of NOS that are identified by the sector as additional skills. There may be multiple options within a QP. It is not mandatory to select any of the options to complete a QP with Options.

Acronyms and Abbreviations

NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
TVET	Technical and Vocational Education and Training
IPR	Intellectual Property Rights