





# **Model Curriculum**

**QP Name: Drone Manufacturing and Assembly Technician** 

QP Code: ELE/Q7307

**QP Version: 2.0** 

NSQF Level: 4

Model Curriculum Version: 2.0

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

**1** Drone Manufacturing and Assembly Technician





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## **Training Parameters**

Sector	Electronics
Sub-Sector	Industrial Automation
Occupation	Assembly – I&A
Country	India
NSQF Level	4
Aligned to NCO/ISCO/ISIC Code	NCO-2015/8212.0400
Minimum Educational Qualification and Experience	<ul> <li>8th Grade Pass + NTC (2 years after 8th) +2 Year NAC/relevant Experience)</li> <li>OR</li> <li>10th Grade pass + 2 Year NTC/NAC/ relevant experience OR</li> <li>Certificate-NSQF (Level-3 in Domain of Electrical/Electronics) with 2 Years of relevant Experience OR</li> <li>12th Grade</li> <li>and</li> <li>18 Years</li> </ul>
Pre-Requisite License or Training	NA
Minimum Job Entry Age	18 Years
Last Reviewed On	26/05/2022
Next Review Date	26/09/2025
NSQC Approval Date	26/05/2022
QP Version	2.0
Model Curriculum Creation Date	26/05/2022
Model Curriculum Valid Up to Date	26/09/2025
Model Curriculum Version	2.0
Maximum Duration of the Course	450 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:

- State the role and responsibilities of an entrepreneur/businessman
- Demonstrate the basic flying physics and motions of the drone using a simulator
- Demonstrate the process of assembling/ disassembling different types of Drones
- Demonstrate the process of inspecting different components of a Drone for testing
- Explain the process of testing a Drone for correct functioning after Assembly
- Explain the process of manufacturing and deploying a Drone
- Explain the importance of following the quality and customer service standards
- Explain the importance of following inclusive practices for all genders and PwD at work
- Demonstrate the use of relevant health and safety equipment

#### **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
Bridge Module	21:00	09:00	00:00	00:00	30:00
Module1: Introduction and Orientation to the Role of a Drone Manufacturer	21:00	09:00	00:00	00:00	30:00
ELE/N7308 Manufacturing and Assembly of a Drone	45:00	105:00	150:00	00:00	300:00
Module 2: Types of Drones and Their Applications	4:00	4:00	15:00	00:00	23:00
Module 3: Study of Block Diagram of a Drone	4:00	6:00	20:00	00:00	30:00
Module 4: Required Constituents/ Tools to assemble a Drone	5:00	15:00	25:00	00:00	45:00
Module 5: Study of Done Electronics/Circuits	8:00	16:00	20:00	00:00	44:00
Module 6: Principles of Flying and Learning it with Drone Simulator	12:00	32:00	35:00	00:00	79:00
Module 7: Assembling, Testing and Quality check of the Drone	12:00	32:00	35:00	00:00	79:00
ELE/N9905 Work effectively atthe workplace	15:00	15:00	00:00	00:00	30:00
Module 8: Soft Skills and Work Ethics	15:00	15:00	00:00	00:00	30:00
ELE/N1002 Apply health and safety practices at workplace	15:00	15:00	00:00	00:00	30:00
Module 9: Basic Health and Safety Practice	15:00	15:00	00:00	00:00	30:00
DGT/VSQ/N0102 – Employability Skills (60 Hou <u>rs)</u>	24:00	36:00	00:00	00:00	60:00

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Module 10: Employability Skills (60 Hours)	24:00	36:00	00:00	00:00	60:00
Total Duration	120:00	180:00	150:00	00:00	450:00





## **Module Details**

## Module 1: Introduction and orientation to the role of a Drone manufacturer

Duration: 21:00	Duration: 09:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul> <li>Describe the size and scope of the electronics industry and its subsectors</li> <li>List various types of Drones and their respective applications</li> </ul>	<ul> <li>Interaction with the types of drones</li> <li>Practical on Role of Drone Technician with reference to Manufacturing and Assembly</li> </ul>
<ul> <li>State the role and responsibilities of a Drone Manufacturer</li> </ul>	
<ul> <li>Discuss various manufacturing opportunities for a Drone manufacturer in the electronics industry</li> </ul>	
<ul> <li>State the organization's policies on incentives, personnel management reporting structure etc.</li> </ul>	
Classroom Aids	
Training kit - Trainer guide, Presentations, Whiteboard	l, Marker, projector, laptop
Tools, Equipment and Other Requirements	
NA	





## Module 2: Types of Drones and Their Applications Mapped to ELE/N7308

#### **Terminal Outcomes:**

• State the different types of Drones and their applications

Duration: 04:00	Duration: 04:00	
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes	
<ul> <li>Explain the fundamental concept of a Drone</li> <li>Explain types of Drones based on Wing Geometry – Fixed Wing, Multi-rotor etc.</li> <li>Describe the applications of different types of Drones.</li> <li>Describe the rationale behind having different Drone types for different applications.</li> <li>Types of Fixed Wing drones, make, parts, terminology</li> <li>Operations &amp; Maneuver of fixed wing drones</li> <li>Applications of Fixed Wing drones.</li> <li>Introduction to Multi-rotor drones.</li> <li>Advantages and disadvantages of Fixed Wing drones over Multi-rotor drones</li> </ul>	<ul> <li>Demonstrate different types of Drones in physical form or</li> <li>Demonstrate the Types of Drones through videos and simulator</li> </ul>	
Classroom Aids		
Drone videos, Whiteboard, Marker, projector, laptop		
Tools, Equipment and Other Requirements		
Different Types of drones in physical form, drone simulator		





## Module 3: Study of Block Diagram of a Drone Mapped to ELE/N7308

Duration: 04:00	Duration: 06:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
Explain the functional Block Diagram of Drones. Describe functionality of each block and its importance with respect to the operations of the drone.	Practically explain showing the parts forming the functional blocks and their significance in the drone operation.
Classroom Aids	
Whiteboard, Marker, projector, laptop	
Tools, Equipment and Other Requirements	
Working model of Drone for demonstration.	

### Module 4: Required Constituents to make a Drone Mapped to ELE/N7308

Duration: 05:00	Duration: 15:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul> <li>Explain from block diagram to actual constituents that go into making of a Drone.</li> <li>Describe in brief, significance, positioning of each constituent.</li> <li>Explain the working of tools needed to assemble and make a drone.</li> <li>Describe the functionality of each part of the Drone.</li> </ul>	<ul> <li>Practically explain showing the parts forming the functional blocks and their significance in the drone operation.</li> <li>Demonstration of using tools needed for drone assembly.</li> </ul>
Classroom Aids	
Whiteboard, Marker, projector, laptop	
Tools, Equipment and Other Requirements	





### Module 5: Study of Drone Electronics/ Circuits Mapped to ELE/N7308

Duration: 08:00	Duration: 16:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul> <li>Overview of basic electronic components such as a resistor, capacitor, transistor, coil, motors, sensors etc.</li> <li>Brushed and Brushless Motors</li> <li>Factors in selection of motors in drones</li> <li>Electronic Speed Control (ESC)</li> <li>Calibrate and mount Electronic Speed Controllers (ESCs)</li> <li>Explain Transmitters &amp; Receivers and communication modules used in drones</li> <li>Drone batteries and their types, pros and cons</li> <li>Explain different sensors used in drones</li> <li>Distinguish between different flight controllers and compare them</li> <li>Explain Payloads in drones such as Cameras, Load Grippers etc.</li> <li>Drone weight and payload weight</li> <li>Explain payload weight distribution for a set of conditions</li> <li>Payload based controller calibration</li> </ul>	<ul> <li>Demonstrate basic electronic components</li> <li>Demonstrate different Drone motors</li> <li>Demonstrate ESC, Trans-receivers etc.</li> <li>Demonstrate Flight controllers</li> <li>Demonstrate payload mechanisms</li> <li>Demonstrate different payload effects on drone flight</li> <li>Demonstrate effect of imbalanced payload conditions</li> </ul>
Classroom Aids	
Whiteboard, Marker, projector, laptop	

#### Tools, Equipment and Other Requirements

Working model of Drone,

Electronic constituents of Drone such as Motors, ESC, Flight controllers, Trans-receivers, different payload mechanisms for demonstration





## Module 6: Principles of Flying and Learning it with Drone Simulator Mapped to ELE/N7308

Mandatory Duration: 12:00	Recommended Duration: 32:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul> <li>Understand basic principles of flying like Bernoulli's Principle etc.</li> <li>Apply principles of flight to Drones.</li> <li>Understand Longitude/Latitude etc.</li> <li>Take-off, Flight, Landing, Maneuvers, turns etc.</li> <li>Multi-rotor configurations, airframe sizes and construction materials</li> <li>Different propeller designs</li> <li>Knowledge of the purpose of the different parts of the drones.</li> <li>Acquire knowledge of thrust to weight ratio of a drone and how the propellers help in controlling the same</li> <li>Apply concepts of Lift and drag for drone flight using a drone simulator</li> <li>Understand concept of reverse torque acting on drones. Knowledge of 3-axis drone motions roll, pitch and yaw and impact of propellors on the motion</li> <li>Knowing controlled roll and pitch angle and its bearing on the flight of the drone</li> <li>Know sensor interfacing with the drone</li> <li>Simulate the concept of Pitch, roll, yaw, thrust to weight ratio using Drone simulator</li> <li>Simulate the concept of Hovering a drone, soft landing, controlled pitch and roll angles with a Drone Simulator</li> <li>Use of Drones solving day-to-day problems</li> </ul>	<ul> <li>Demonstrate airframes and propellors</li> <li>Demonstrate aerodynamics of motion contro</li> <li>Demonstrate maneuvering in drones using these principles</li> <li>Simulate full flight sequences on the Drone Simulator for understanding of – <ul> <li>Set Up – Drone, Site, Coordinates</li> <li>Pre-flight checks, start-up</li> <li>Take-off</li> <li>Fly</li> <li>Approach and soft landing</li> <li>Handle fly-aways and exceptions</li> <li>Yaw, pitch, roll</li> <li>Thrust-to-weight ratio, lift, drag</li> <li>Controlled roll and pitch angles</li> </ul> </li> </ul>
Classroom Aids	
Whiteboard, Marker, projector, laptop	
Tools, Equipment and Other Requirements	

Drone Simulator capable with all above-mentioned simulation parameters and facilities





### Module 7: Assembling, Testing and Quality check of the Drone Mapped to ELE/N7308

Mandatory Duration: 12:00	Recommended Duration: 32:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul> <li>On the basis of previous module knowledge gained in module 6 and 7 of electronics &amp; aerodynamics(mechanical) of drones <ul> <li>And from the drone components (Bill of materials)</li> <li>With the help of tools studied previously</li> </ul> </li> <li>Assemble different types of Drones from their components and sub-assemblies</li> <li>To study the assembly procedures for at least 2 different types of drones</li> <li>To study configurations and setting of drones to make them operational with desired functionality</li> <li>To study the methods to carry out testing of drone sub-assemblies and also fully assembled drone with/without payload</li> <li>Performing the necessary pre-dispatch Quality Checks on the Assembled / Manufactured drone.</li> </ul>	<ul> <li>Practicing actual assembly and manufacturing of the drone</li> <li>Identifying BOM of components and assemble the drone from drawing supplied with drone kits</li> <li>Carry out configuration and settings for the drone. Charging the drone batteries</li> <li>Repeat for at least 2 types of drones</li> <li>Carry out testing and Quality Check / Assurance of the drone without payload and then with rated payload</li> <li>Deploy the drone</li> </ul>
Classroom Aids	

#### **Tools, Equipment and Other Requirements**

Full CKD (Complete Knock-Down) components for at least 2 different types of Drones. Full tool set –

Soldering Iron, Screwdriver, Torque Screwdriver, Nut Driver, Safety Knife, Pliers, Wire Strippers, Wire Cutters, Glue Gun, Tweezers, Multi-meter, Heat Gun, Desk Light and Magnifier, Digital Weighing Scale, Wattmeter and Clamp Meter, Motor Thrust Stand, Servo Tester, Connectors etc.





## Module 8: Soft Skills and Work Ethics Mapped to ELE/N9905

#### **Terminal Outcomes:**

- Work effectively at the workplace.
- Demonstrate practices related to gender and PwD sensitization

ration: 15:00	Duration: 15:00
eory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul> <li>State the importance of work ethicsand workplace etiquette</li> <li>State the importance of effective communication and interpersonalskills.</li> <li>Explain ways to maintain discipline atthe workplace.</li> <li>Discuss the common reasons for interpersonal conflict and ways of managing them effectively.</li> <li>Discuss the importance of following organizational guidelines for dress code, time schedules, language usageand other behavioral aspects.</li> <li>Explain the importance of working as per the workflow of the organization toreceive instructions and report problems.</li> <li>Explain the importance of conveying information/instructions as per defined protocols to the authorized persons/team members.</li> <li>Explain the common workplace guidelines and legal requirements onnon-disclosure and confidentiality ofbusiness-sensitive information.</li> <li>Describe the process of reporting grievances and unethical conduct suchas data breach, sexual harassment at the workplace, etc.</li> <li>Explain the concept and importance of gender sensitivity and equality.</li> <li>Discuss ways to create sensitivity for different genders and Persons with Disabilities (PwD).</li> <li>Discuss ways of dealing with heightened emotior of self andothers.</li> </ul>	<ul> <li>Develop a sample plan to achieve organizational goals and targets.</li> <li>Create a sample feedback form to obtain feedback from customers, colleagues etc.</li> <li>Roleplay to demonstrate the use of professional language and behavior that is respectful of PwD and all genders.</li> <li>Apply organizational protocol on data confidentiality and sharing only with the authorized personnel.</li> </ul>





#### **Classroom Aids**

Training kit (Trainer guide, Presentations)

#### Tools, Equipment and Other Requirements

Sample of escalation matrix, organization structure.





## Module 9: Basic Health and Safety Practice Mapped to ELE/N1002

#### **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> <li>Discuss job-site hazards, risks and accidents.</li> <li>Explain the organizational safety are solved for a sintaining solvetning.</li> </ul>	<ul> <li>Demonstrate the use of protective equipment suitable as per tasks andwork conditions.</li> </ul>			
procedures for maintaining electrical safety, handling tools and hazardous materials.	<ul> <li>Report any abnormal situation/behavior of any equipment/system to the relevantauthorities.</li> </ul>			
<ul> <li>Elaborate electronic waste disposal procedures.</li> </ul>	<ul> <li>Administer first aid in case of a minor accident.</li> </ul>			
<ul> <li>Describe the process of disposal of hazardous waste</li> </ul>	• Demonstrate the steps to free a personfrom electrocution safely.			
List the name and location of concerned people, documents and equipment for	Administer Cardiopulmonary Resuscitation (CPR).			
maintaining health andsafety in the workplace.	• Demonstrate the application of defined emergency procedures such as raising alarm,			
<ul> <li>Describe how to interpret warning signs while accessing sensitive workareas.</li> </ul>	safe/efficient, evacuation, moving injured people, etc.			
<ul> <li>Explain the importance of good housekeeping.</li> </ul>	<ul><li> Prepare a sample incident report.</li><li> Use a fire extinguisher in case of a fire</li></ul>			
<ul> <li>Describe the importance of maintaining appropriate postures whilelifting heavy</li> </ul>	incident.			
objects.	<ul> <li>Demonstrate the correct method oflifting and handling heavy objects.</li> </ul>			
<ul> <li>List the types of fire and fire extinguishers.</li> </ul>				
<ul> <li>Explain the importance of efficient utilization of water, electricity andother resources.</li> </ul>				
<ul> <li>List the common sources of pollution and ways to minimize it.</li> </ul>				
<ul> <li>Describe the concept of waste management and methods of disposing hazardous waste.</li> </ul>				
• Explain various warning and safetysigns.				
<ul> <li>Describe different ways of preventing accidents at the workplace.</li> </ul>				





Training kit (Trainer guide, Presentations)

#### **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 10: Employability Skills (60 Hours) Mapped to DGT/VSQ/N0102

#### **Terminal Outcomes:**

- Discuss about Employability Skills in meeting the job requirements
- Describe opportunities as an entrepreneur.
- Describe ways of preparing for apprenticeship & Jobs appropriately.

<b>Duration:</b> 24:00	Duration: 36:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul> <li>Explain constitutional values, civic rights, responsibility towards society to become a responsible citizen</li> <li>Discuss 21<sup>st</sup> century skills</li> <li>Explain use of basic English phrases and sentences.</li> <li>Demonstrate how to communicate in a well-behaved manner</li> <li>Demonstrate how to work with others</li> <li>Demonstrate how to operate digital devices</li> <li>Discuss the significance of Internet and Computer/ Laptops</li> <li>Discuss about types of customers.</li> <li>Discuss on creation of biodata</li> <li>Discuss about apprenticeship and opportunities related to it.</li> </ul>	<ul> <li>List different learning and employability related GOI and private portals and their usage</li> <li>Show how to practice different environmentally sustainable practices.</li> <li>Exhibit 21st century skills like Self-Awareness, Behavior Skills, time management, etc.</li> <li>Show how to use basic English sentences for everyday conversation in different contexts, in person and over the telephone</li> <li>Demonstrate how to communicate in a well - mannered way with others.</li> <li>Demonstrate how to communicate effectively using verbal and nonverbal communication etiquette</li> <li>Utilize virtual collaboration tools to work effectively</li> <li>Demonstrate how to maintain hygiene and dressing appropriately.</li> <li>Perform a mock interview</li> </ul>

Training Kit (Trainer Guide, Presentations). Whiteboard, Marker, Projector, Laptop

#### **Tools, Equipment and Other Requirements**

Computer, UPS, Scanner, Computer Tables, LCD Projector, Computer Chairs, White Board

OR

Computer Lab





#### Mandatory Duration: 150:00

**Recommended Duration:** 00:00

#### **Terminal Outcomes**

- 1. Explain the fundamental concept of a Drone
- 2. Illustrate the preliminary tasks involve in the Manufacture and Assembly of a Drone
- 3. Demonstrate how to perform preliminary checks on a Drone
- 4. Demonstrate how to carry out Testing of a Drone prior to deployment
- 5. Test functioning of the Drone post assembly
- 6. Communicate product and service-related information to the customer
- 7. Interact and coordinate with supervisor and colleagues
- 8. Perform assigned work within timelines and with defined quality
- 9. Demonstrate how to maintain a healthy, safe and secure working environment





## Annexure

## **Trainer Requirements**

Trainer Prerequisites						
Minimum Educational	Specialization	Relevant Industry Experience		Training Experience		Remarks
Qualification		Years	Specialization	Years	Specialization	
Diploma / Degree in Electronics (related fields) or Aeronautical Engineering/ Certified in relevant CITS Trade		2	Drone Manufacturing & Assembly Technician	1	Electronics	

Trainer Certification				
Domain Certification	Platform Certification			
"Drone Manufacturing & Assembly Technician", "ELE/Q7307, v2.0", Minimum accepted score is 80%	Recommended that the Trainer is certified for the <b>Drone Manufacturing &amp; Assembly</b> <b>Technician</b> "Trainer (VET and Skills)", mapped to the Qualification Pack: "MEP/Q2601, V2.0", with minimum score of 80%			





## **Assessor Requirements**

Assessor Prerequisites						
Minimum Educational	Specialization		Relevant Industry Experience		g/Assessment ence	Remarks
Qualification		Years	Specialization	Years	Specialization	
Diploma / Degree in Electronics or Aeronautical Engineering/ Certified in relevant CITS Trade	Should have knowledge of aerospace engineering/ Electronics Engineering	3	Drone Manufacturing & Assembly Technician	2	Electronics	

Assessor Certification				
Domain Certification	Platform Certification			
"Drone Manufacturing & Assembly Technician", "ELE/Q7307, v2.0", Minimum accepted score is 80%	Recommended that the Assessor is certified for the <b>Drone Manufacturing &amp; Assembly Technician</b> "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/SIPor 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
  - To ensure a conducive environment for conducting a test, the trainer will:
    - 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 are 10 a.m. and 5 p.m. respectively
    - Ensure there are 2 Assessors if the batch size is more than 30.
    - Check that the allotted time to the candidates to complete Theory & Practical Assessmentis 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
  - The 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 trainingperiod
  - Time-stamped & geotagged assessment (Theory + Viva + Practical) photographs & videos
- 5. Method of verification or validation:

To verify the details submitted by the training centre, the assessor will undertake:

- A surprise visit to the assessment location
- A random audit of the batch
- A random audit of any candidate
- 6. Method for assessment documentation, archiving, and access

To protect the assessment papers and information, the assessor will ensure:

- Hard copies of the documents are stored
- Soft copies of the documents & photographs of the assessment are uploaded/ accessedfrom Cloud Storage
- Soft copies of the documents & photographs of the assessment are stored on the Harddrive



## References



## Glossary

Term	Description
Declarative knowledge	Declarative knowledge refers to facts, concepts and principles that need tobe known and/or understood in order to accomplish a task or to solve a problem.
Key Learning	Key learning outcome is the statement of what a learner needs to know, understand and be able to do in order to achieve the terminal outcomes. Aset of key learning outcomes will make up the training outcomes. Training outcome is specified in terms of knowledge, understanding (theory) and skills (practical application).
(M) TLO	On-the-job training (Mandatory); trainees are mandated to complete specified hours of on-site training
OJT (R)	On-the-job training (Recommended); trainees are recommended the specified hours of on-site training
Procedural Knowledge	Procedural knowledge addresses how to do something, or how to perform a
Training Outcome	Training outcome is a statement of what a learner will know, understand and be able to do <b>upon the completion of the training</b> .
Terminal Outcome	Terminal outcome is a statement of what a learner will know, understand and be able to do <b>upon the completion of a module.</b> A set of terminal outcomes help to achieve the training outcome.





## Acronyms and Abbreviations

Term	Description
АМС	Annual Maintenance Contract
CPR	Cardiopulmonary Resuscitation
DC	Direct Current
EM&B	E-Mobility & Battery
GPS	Global Positioning System
IC	integrated Circuit
NCO	National Occupational Standards
NOS	National Skills Qualification Committee
NSQF	National Skills Qualification Framework
OMR	Optical Mark Recognition
TLO	On-the-Job Training
РС	Performance Criteria
PwD	Persons with Disabilities
QP	Qualification Pack
SDMS	Skill Development & Management System
SIP	Skill India Portal
SME	Small and Medium Enterprises
SOP	Standard Operating Procedure
SSC	Sector Skill Council
ТАВ	Tablet
тс	Trainer Certificate
ТоА	Training of Assessors
ТоТ	Training of Trainers
ТР	Training Provider
VTP	Vocational Training Provider