











Model Curriculum

QP Name: Assistant Surveyor

QP Code: CON/Q0901

QP Version: 5.0

NSQF Level: 2

Model Curriculum Version: 5.0

Construction Skill Development Council of India | CPB-201 and 202, Tower 4B, DLF Corporate Park, Mehrauli-Gurgaon Rd, DLF Phase 3, Gurugram, Haryana, 122002











Table of Contents

Training Parameters	3
Program Overview	4
Compulsory Modules	4
Module Details	6
Module 1: Introduction to Assistant surveyor job role	6
Module 2: Handle and store tools and instruments used in surveying work as per the instructions	7
Module 3: Provide support in various surveying works	8
Module 4: Follow safety norms as defined by organization, adopt healthy and safe work practices	9
Module 5: Communicate effectively at workplace	11
Module 6: Employability Skills (30 Hours)	12
On-the-Job Training	14
Annexure	
Trainer Requirements:	15
Assessor Requirements:	16
Assessment Strategy	17
References	20
Glossary	20
Acronyms and Abbreviations	21











Training Parameters

Sector	Construction		
Sub-Sector	Real Estate and Infrastructure Construction		
Occupation	Surveying		
Country	India		
NSQF Level	2		
Aligned to NCO/ISCO/ISIC Code	NCO-2015/ 2165.0200		
Minimum Educational Qualification and	No Formal Education prescribed		
Experience	OR		
Experience	Ability to read and write		
Pre-Requisite License or Training	NA		
Minimum Job Entry Age	18 Years		
Last Reviewed On	30/04/2025		
Next Review Date	30/04/2028		
NSQC Approval Date	08/05/2025		
QP Version	5.0		
Model Curriculum Creation Date	30/04/2025		
Model Curriculum Valid Up to Date	30/04/2028		
Model Curriculum Version	5.0		
Minimum Duration of the Course	300 hours		
Maximum Duration of the Course	300 hours		











Program Overview

Training Outcomes

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

- Identify and handle various tools and instruments used in surveying.
- Demonstrate handling, storing and stacking of surveying tools, instruments and materials.
- Explain the standard procedures of levelling, linear and angular measurements.
- Demonstrate placement and fixing of tripod.
- Demonstrate initial setup and fixing of staff for angular measurement and levelling.
- Demonstrate layout marking for setting out.
- Demonstrate effective communication with co-workers, superiors and sub-ordinates across different teams
- Provide support to co-workers, superiors and sub-ordinates within the team and across interfacing teams to ensure effective execution of assigned task.
- Demonstrate practices sensitive to disabilities (physical, mental, intellectual or sensory impairment), cultural diversity and gender neutrality
- Identify various hazards at construction site.
- Use PPE's relevant to surveying works.
- Perform safe waste disposal at construction site.
- Demonstrate the activities to check the spread of infection as per medical/ organizational guidelines

Compulsory Modules

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

NOS and Module Details	Theory Duration (in Hours)	Practical Duration (in Hours)	On-the-Job Training Duration (Mandatory) (in Hours)	Total Duration (in Hours)
CON/N0901: Handle and store tools and instruments used in surveying work as per theinstructions NOS Version No.: 5.0 NSQF Level: 2	20:00	55:00	15:00	90:00
Module 1: Introduction to Assistant surveyor job role	05:00	00:00	00:00	05:00
Module 2: Handle tools and instruments used in surveying	15:00	55:00	15:00	85:00
CON/N0902: Provide support in various surveying works NOS Version No.: 6.0 NSQF Level: 2	30:00	75:00	15:00	120:00
Module 3: Provide support in surveying works	30:00	75:00	15:00	120:00











CON/N9001: Work according to personal health, safety and environment protocol atconstruction site NOS Version No.: 3.0 NSQF Level: 4	05:00	25:00	00:00	30:00
Module 5: Follow safety norms as defined by organization, adopt healthy and safe work practices	05:00	25:00	00:00	30:00
CON/N8001: Work effectively in a team to deliver results at a construction site NOS Version No.: 3.0 NSQF Level: 4	05:00	25:00	00:00	30:00
Module 4: Communicate effectively at workplace	05:00	25:00	00:00	30:00
DGT/VSQ/N0101: Employability Skills (30 Hours) NOS Version No.: 1.0 NSQF Level: 2	30:00	00:00	00:00	30:00
Module 6: Employability Skills	30:00	00:00	00:00	30:00
Total Duration	90:00	180:00	30:00	300:00











Module Details

Module 1: Introduction to Assistant surveyor job role Mapped to CON/N0901, v 5.0

Terminal Outcomes:

- Explain the role and responsibilities of Assistant surveyor.
- Identify the career progression for the Assistant surveyor.

Duration: 05:00	Duration: 00:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
 Discuss the roles and responsibilities of an assistant surveyor. Explain expected personal attributes required in surveying occupation. Discover future possible progression and career development options of an assistant surveyor. 	
Classroom Aids:	
Black/White board, Projector/LED Monitor, Comp teaching aids	outer, Register, Trade specific charts and other
Tools, Equipment and Other Requirements	
NA	











Module 2: Handle and store tools and instruments used in surveying work as per the instructions

Mapped to CON/N0901, v 5.0

Terminal Outcomes:

- Identify and handle various tools and instruments used in surveying.
- Demonstrate handling, storing and stacking of surveying tools, instruments and materials.

Duration: 15:00 Duration: 55:00	
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
 List various tools and accessories such as chains, tapes, offsets, poles, compass, pegs etc. used in chain and compass surveying Explain the purpose and area of applications of linear measurement instruments. List the various level and bearing measuring instruments such as dumpy level, auto level, tilting level etc. Explain the process and use of levelling accessories such as levelling staff, arrows and pegs. List various level and angle measuring instruments like tachometer, theodolite, total station etc. Explain the standard handling of various surveying instruments and materials used in linear, angular, level and bearing measurement. 	 Classify various instruments types of surveying instruments such as linear, level and bearing measurement instruments etc. Demonstrate handling of chains and tapes for precise reading. Demonstrate handling of offsets, levelling equipment, angles, angle measuring instruments and other tools and accessories used in surveying works. Demonstrate handling of miscellaneous instruments such as those used in GPS, photogrammetry and transit surveys. Demonstrate storing and stacking of surveying tools and instruments. Demonstrate handling, stacking and storing different surveying materials such as lime, strings, hurdles, paints etc. as per standard practices/instructions.

Classroom Aids:

Black/White board, marker, Projector/LED Monitor, Computer, Trade specific charts, Safety tags, Safety Notice board, registers and other teaching aids

Tools, Equipment and Other Requirements

chains, tapes, offsets, poles, compass, dumpy level, auto level, tilting level, tripods, levelling staff, arrows, Pegs, Tachometer, Theodolite, Total station, lime, strings, hurdles, paints











Module 3: Provide support in various surveying works Mapped to CON/N0902, v6.0

Terminal Outcomes:

- Explain the standard procedures of levelling, linear and angular measurements.
- Demonstrate placement and fixing of tripod.
- Demonstrate initial setup and fixing of staff for angular measurement and levelling.
- Demonstrate layout marking for setting out.

Duration: 30:00	Duration: 75:00		
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes		
 Explain selection of tripods based upon the instrument to be used. Describe importance of placing the tripod at the exact location of marking. Explain standard procedure for linear and angular measurements. List different types of staffs to be used for different types of instruments. Describe different method of holding the staff. Explain standard procedure for marking various points and symbols for layout, using paint. Explain procedure for setting out using hurdles/profiles for layout marking. Explain procedures for installing hurdles and profiles for setting out. Describe importance of correct setting out. Explain the process of marking layout for excavation using lime. 	 Demonstrate selection and shifting of tools and materials to the instructed location. Demonstrate placing and fixing of tripod on the marked location. Demonstrate unfolding of the chain as per standard practices. Demonstrate liner measurements of distances using chains, ranging rods and arrows, while properly interpreting the hand signals. Demonstrate initial setting up of instruments and fixing of staff for capturing reading in angular measurement and levelling. Demonstrate the process of setting out — marking points of layout and installing hurdles, marking grids and connecting hurdles —as per layout/work plan. Demonstrate marking of layout for excavation using lime. 		

Classroom Aids:

Black/White board, marker, Projector/LED Monitor, Computer, Trade specific charts, Safety tags, Safety Notice board, registers and other teaching aids

Tools, Equipment and Other Requirements

chains, tapes, offsets, poles, compass, dumpy level, auto level, tilting level, tripods, levelling staff, arrows, Pegs, Tachometer, Theodolite, Total station, lime, strings, hurdles, paints











Module 4: Follow safety norms as defined by organization, adopt healthy and safe work practices

Mapped to CON/N9001, v.3.0

Terminal Outcomes:

- Identify various hazards at construction site.
- Use PPE's relevant to surveying task.
- Perform safe waste disposal at construction site.
- Demonstrate the activities to check the spread of infection as per medical/ organizational guidelines.

Duration: 05:00	Duration: 25:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
 Explain the types of hazards at the construction sites and identify the hazards specific to the domain related works. Recall the safety control measures and actions to be taken under emergency situation. Explain the classes of fire and types of fire extinguishers. Explain the importance of participation of workers in safety drills. Explain the reporting procedure to the concerned authority in case of emergency situations. Describe the standard procedure for handling, storing and stacking of material, tools, equipment and accessories. Explain different types of waste at construction sites and their disposal method. Explain the purpose and importance of vertigo test at construction site. List out basic medical tests required forworking at construction site. Explain the types and benefits of basic ergonomic principles, which should be adopted while carrying out specific taskat the construction sites. Explain the importance of housekeeping works. List different types of infectious diseasethat can spread/ originate at a construction site Discuss the ways of transmission of thevarious infectious disease. 	 Demonstrate the operating procedure of the fire extinguishers. Demonstrate use of PPEs as per work requirements. Demonstrate vertigo test. Demonstrate safety techniques to be adopted in case of accidents. Demonstrate safe waste disposal practices followed at construction site. Demonstrate safe housekeeping practices. Demonstrate the practices to maintain personal hygiene, workplace hygiene and site/ workplace sanitization. Demonstrate the methods to clean and disinfect all materials, tools and supplies before and after use. Demonstrate the procedure to report to the concerned authority regarding the outbreak/ hazard of any infectious disease/ pandemic.











- Explain the methods to check the spread of the infectious disease.
- Describe the symptoms and cure of thevarious infectious disease.

Classroom Aids:

Black/White board, marker, Projector/LED Monitor, Computer, Trade specific charts, Safety tags, Safety Notice board, registers and other teaching aids

Tools, Equipment and Other Requirements

Safety Helmets, Face shield, Overalls, Knee pads, Safety shoes, Safety belts, Safety harness, Safety Gloves, Safety goggles, Particle masks, Ear Plugs, Reflective jackets, Fire Extinguisher, Fire prevention kit, First Aid box, Safety tags, Safety Notice board











Module 5: Communicate effectively at workplace Mapped to CON/N8001, v3.0

Terminal Outcomes:

Duration: 05:00

- Demonstrate effective communication with co-workers, superiors and sub-ordinates across different teams
- Provide support to co-workers, superiors and sub-ordinates within the team and across interfacing teams to ensure effective execution of assigned task.
- Demonstrate practices sensitive to disabilities (physical, mental, intellectual or sensory impairment), cultural diversity and gender neutrality.

Duration: 25:00

Duration: 05:00	Duration: 25:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
 Explain the effects and benefits of timely actions relevant to the task at hand with examples. Explain the importance of teamwork and its effects relevant to the task at hand with examples. Explain the importance of proper and effective communication and its adverse effects in case of failure of proper communication. Discuss about gender and its related concept: gender equality, gender equity (group work) Discuss different types of disabilities (physical, mental, intellectual or sensory impairment). Discuss the activities sensitive to the cultural diversity, disabilities and gender neutrality at the workplace. Discuss the basic rules and regulations related to gender sensitivity, disabilities, and cultural diversity, with their impact on operations of a workplace. Discuss how to take initiative in resolving issues among co-workers in a given situation. Discuss reporting procedure followed at the workplace. 	 Apply effective communication skills while interacting with co-workers, trade seniors and others during the assigned task. Use appropriate writing skills and verbal communication reporting as per commonly acceptable organisational norms. Demonstrate teamwork skills during assigned task. Demonstrate acceptable interpersonal transactions with individuals having disabilities (physical, mental, intellectual or sensory impairment) or cultural diversity. Demonstrate the process modifications required to make the workplace free from gender biases.

Classroom Aids:

Black/White board, marker, Projector/LED Monitor, Computer, Trade specific charts, Safety tags, Safety Notice board, registers and other teaching aids

Tools, Equipment and Other Requirements

N/A











Module 6: Employability Skills (30 Hours)

Mapped to DGT/VSQ/N0101, v1.0

Duration: 30:00

Key Learning Outcomes

Introduction to Employability Skills Duration: 1 Hour

After completing this programme, participants will be able to:

1. Discuss the importance of Employability Skills in meeting the job requirements

Constitutional values - Citizenship Duration: 1 Hour

- 2. Explain constitutional values, civic rights, duties, citizenship, responsibility towards society etc. that are required to be followed to become a responsible citizen.
- 3. Show how to practice different environmentally sustainable practices.

Becoming a Professional in the 21st Century Duration: 1 Hour

- 4. Discuss 21st century skills.
- 5. Display positive attitude, self -motivation, problem solving, time management skills and continuous learning mindset in different situations.

Basic English Skills Duration: 2 Hours

6. Use appropriate basic English sentences/phrases while speaking

Communication Skills Duration: 4 Hours

- 7. Demonstrate how to communicate in a well -mannered way with others.
- 8. Demonstrate working with others in a team

Diversity & Inclusion Duration: 1 Hour

- 9. Show how to conduct oneself appropriately with all genders and PwD
- 10. Discuss the significance of reporting sexual harassment issues in time

Financial and Legal Literacy Duration: 4 Hours

- 11. Discuss the significance of using financial products and services safely and securely.
- 12. Explain the importance of managing expenses, income, and savings.
- 13. Explain the significance of approaching the concerned authorities in time for any exploitation as per legal rights and laws

Essential Digital Skills Duration: 3 Hours

- 14. Show how to operate digital devices and use the associated applications and features, safely and securely
- 15. Discuss the significance of using internet for browsing, accessing social media platforms, safely and securely

Entrepreneurship Duration: 7 Hours

16. Discuss the need for identifying opportunities for potential business, sources for arranging money and potential legal and financial challenges

Customer Service Duration: 4 Hours

- 17. Differentiate between types of customers
- 18. Explain the significance of identifying customer needs and addressing them
- 19. Discuss the significance of maintaining hygiene and dressing appropriately











Getting Ready for apprenticeship & Jobs Duration: 2 Hours

- 20. Create a biodata
- 21. Use various sources to search and apply for jobs
- 22. Discuss the significance of dressing up neatly and maintaining hygiene for an interview
- 23. Discuss how to search and register for apprenticeship opportunities











On-the-Job Training

Mapped to Assistant Surveyor, v 4.0

CON/N0901, v **5.0**, Mandatory Duration: *15:00*

Location: On Site

- Classify various instruments types of surveying instruments such as linear, leveland bearing measurement instruments etc.
- Demonstrate handling of chains and tapesfor precise reading.
- Demonstrate handling of offsets, levellingequipment, angles, angle measuring instruments and other tools and accessories used in surveying works.
- Demonstrate handling of miscellaneous instruments such as those used in GPS, photogrammetry and transit surveys.
- Demonstrate storing and stacking of surveying tools and instruments.
- Demonstrate handling, stacking and storing different surveying materials such as lime, strings, hurdles, paints etc. as perstandard practices/instructions.

CON/N0902, v 5.0, Mandatory Duration: *15:00*

Location: On Site

- Demonstrate selection and shifting oftools and materials to the instructed location.
- Demonstrate placing and fixing of tripodon the marked location.
- Demonstrate unfolding of the chain as perstandard practices.
- Demonstrate liner measurements of distances using chains, ranging rods and arrows, while properly interpreting the hand signals.
- Demonstrate initial setting up of instruments and fixing of staff for capturing reading in angular measurementand levelling.
- Demonstrate the process of setting out —marking points of layout and installing hurdles, marking grids and connecting hurdles —as per layout/work plan.
- Demonstrate marking of layout forexcavation using lime.











Annexure

Trainer Requirements:

Minimum Educational	Specialization			Preferab	ole Training Experience
Qualification	Specialization			Years	Specialization
B.E. / B.Tech	Civil Engineering	2	Construction Site Surveying	1	Construction Site Survey Work
			OR		
Diploma	Civil Engineering	3	Construction Site Surveying	1	Construction Site Survey Work
OR					
ITI	Relevant Trade	6	Construction Site Surveying	1	Construction Site Survey Work
	OR				
Graduation	in any Stream	6	Construction Site Surveying	1	Construction Site Survey Work
OR					
Ex-Army Graduate	in any Stream	6	Construction Site Surveying	1	Construction Site Survey Work

Trainer Certification				
Domain Certification	Platform Certification			
Recommended that the Trainer is certified for the Job Role: "Assistant Surveyor", mapped to the Qualification Pack: "CON/Q0901, v5.0". The minimum accepted score is 80%.	Recommended that the Trainer is certified for the Job Role: "Trainer (VET and skills)", mapped to the Qualification Pack: "MEP/Q2601, v3.0". The minimum accepted score is 80%.			











Assessor Requirements:

Minimum		Rel	evant Industry Experience		
Educational Qualification	Specialization	Years	Specialization		
B.E. / B.Tech	Civil Engineering	2	Site Execution (Surveying Work)		
OR					
Diploma	Civil Engineering	5	Site Execution (Surveying Work)		
OR					
ITI	Relevant Trade	7	Site Execution (Surveying Work)		

Assessor Certification				
Domain Certification	Platform Certification			
Recommended that the Assessor is certified for the Job Role: "Assistant Surveyor", mapped to the Qualification Pack: "CON/Q0901, v5.0". The minimum	Recommended that the Assessor is certified for the Job Role: "Assessor (VET and skills)", mapped to the Qualification Pack: "MEP/Q2701, v3.0". The minimum			
accepted score is 80%.	accepted score is 80%.			











Assessment Strategy

This section includes the processes involved in identifying, gathering, and interpreting information to evaluate the Candidate on the required competencies of the program.

1. Assessment system Overview:

Assessment is done through CSDCI affiliated Assessment Agencies. Assessors are trained & certified by CSDCI after Training Of Assessor (TOA) program. Assessments is conducted to gauge and assess the trainee's skill and knowledge competency in the specified areas. The assessment will have both theory and practical components in 30:70 ratio for **Assistant Surveyor** job role.

During the practical task, trainees are assessed on their workmanship, quality of finished product and time management. They will be graded for all their assessments based on the approved assessment strategy which is signed off by CSDCI. The Assessor submits an assessment plan to CSDCI prior to assessments.

The assessment plan contains the following information:

- What will be assessed, i.e. the competency based on each NOS based on theory and practical questions
- How assessment will occur i.e. methods of assessment
- When the assessment will occur
- Duration of assessment
- Where the assessment will take place i.e. context of the assessment (workplace/simulation)
- The criteria for decision making i.e. those aspects that will guide judgments
- Where appropriate, any supplementary criteria used to make a judgment on the level of performance.

2. Testing Environment:

- Training partner shares the batch start date and end date, number of trainees and the job role.
- Assessment will be fixed for a day after the end date of training. It could be next day or later. Assessment will be conducted at the training venue/test center.
- The knowledge/theory assessments is conducted with proper seating arrangements with enough space between the candidates to prevent mal-practicing.
- Question set for theory and practical will be distributed to each candidate by the Assessor.
 Theory testing will include multiple choice questions, pictorial question, etc. which will test
 the trainee on his theoretical knowledge of the subject. The skill /practical assessments will
 be conducted in the approved test centers. The training provider will ensure adequate tools
 and materials are available to conduct the practical test.
- If number of candidates are more than 30, more assessors will be organized on same day to complete the assessment.
- The assessment has to comprise of two components, namely:
 - Knowledge assessment (theory/viva assessment)
 - Skill assessment (practical/hands-on skill assessment)

3. Mode of assessment:

- Demonstration/Practical for Performance /Skill Assessment
- Synoptic multiple-choice question test
- Viva for Knowledge Assessment











4. Performance/skill assessment:

- The performance/skill assessment will be conducted through demonstration/practical
- For the practical test trainees are assessed through a given task, which they have to complete correctly for them to be marked as passed.
- The assessment is conducted in a simulated working environment. Due to this fact, the
 assessors must note that the naturally occurring evidence of competence is unavailable or
 infrequent. Simulation must be undertaken in a Realistic Working Environment which
 provides an environment that replicates the key characteristics of the workplace in which
 the skill to be assessed is normally employed.

5. Knowledge Assessment:

- The knowledge assessments are conducted through written test/ viva.
- Synoptic test is used for this. It is an MCQ (Multiple Choice Question) test which are prepared externally and externally marked, meaning by agency having no link with training partners. The test may be conducted by the assessor in the oral mode, if required, considering the lack of reading and comprehending acumen (skills) of trainees. In such cases, the assessor will mention it on top of the MCQ submitted to CSDCI.
- The assessment strategy, weightage and duration of assessment for **Assistant Surveyor** is summarized below

Assessment Type	Formative or Summative	Strategies	Weightage	Duration (hours)
Knowledge	Summative	MCQ/Viva	30	1.5
skill	Summative	Structured Practical Task	70	5.5

6. Assessment Quality Assurance framework:

- CSDCI has developed assessment criteria framework for each Qualification pack as per National Occupational Standards. The criteria framework includes weightages/marks for each criterion under knowledge and skill. The criteria ensure quality assurance as it ensures valid, consistent and fair assessments at all locations. Issued to the affiliated Assessment body. The Assessment body develop questions based on CSDCI issued assessment criteria.
- Evidences in the form of answer sheets in case of knowledge assessments are collected. For skill assessments videos and photographs are prepared as evidence. These are submitted by the assessor to the assessment agency. CSDCI does random checks of the same with the participant/trainee's ID and ascertains authenticity and validity of assessments.
- The training partner will intimate the time of arrival of the assessor and time of leaving the venue. Random spot checks/audit is conducted by CSDCI to monitor assessment.

7. Methods of Validation:

- Unless the trainee is registered, the person cannot undergo assessment. To further ensure that the person registered is the person appearing for assessment, ID verification is carried out. Aadhar card number is part of registering the candidate for training. This forms the basis of further verification during the assessment.
- Assessor conducts the assessment through theory and practical questions developed in accordance with the assessment criteria and guidelines issued by CSDCI. This too is verified by random audits carried out by CSDCI.
- Evidences for assessments are to be collected and submitted to CSDCI for verification as per demand.
- Assessment agency is responsible to put details in SIP. CSDCI will also validate the data and











result received from the assessment agency.

8. Method of assessment documentation and access:

- The assessment agency will upload the result of assessment in the portal. The data will not be accessible for change by the assessment agency after the upload. The assessment data will be validated by CSDCI assessment team. After upload, only CSDCI can access this data.
- CSDCI approves the results within five days after which results are uploaded on SIDH by Assessment Agency.

9. On the Job:

 On job training (OJT), candidates undergo training and leaning at actual workplace for a fixed period of time and a certain weightage of assessment is allocated out of total skill weightage of Qualification Pack for undergoing OJT as stipulated by CSDCI. This OJT score and assessors' end point score are combined to arrive at final Marking/grading of trainees' skill test. The OJT score is determined by Supervisor of company under which candidates undergo on job training.











References

Glossary

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











Acronyms and Abbreviations

Acronyms and Al	Description	
MSDE	Ministry of Skill Development and Entrepreneurship	
NCVET	National Council for Vocational Education and Training	
NSDC	National Skill Development Corporation	
SIDH		
CSDCI	Skill India Digital Hub Constriction Skill Development Council of India	
AB	·	
SSC	Awarding Body Sector Skill Council	
PMKVY		
DDU-GKY	Pradhan Mantri Kaushal Vikas Yojana Deen Dayal Upadhyaya Grameen Kaushalya Yojana	
SANKALP		
STRIVE	Skill Acquisition and Knowledge Awareness for Livelihood Promotion	
JSS	Skills Strengthening for Industrial Value Enhancement Jan Shikshan Sansthan	
STT	Short Term Training	
RPL	Recognition of Prior Learning	
NAPS	National Apprenticeship Promotion Scheme	
AA	Assessment Agency	
TP	Training Provider / Training Partner	
TC	Training Centre	
ITI	Industrial Training Institute	
NSQC	National Skill Qualification Committee	
NSQF	National Skills Qualification Framework	
Q-File	Qualification File	
QP	Qualification Pack	
MC	Model Curriculum	
NOS	National Occupational Standards	
PC	Performance Criteria	
KU	Knowledge and Understanding	
GS	Generic Skills	
MCQ	Multiple Choice Question	
EHS	Environment Health and Safety	
PPE	Personal Protective Equipment	
QA/QC	Quality Assurance / Quality Control	
TS	Total Station	
GPS	Global Positioning System	
DGPS	Differential Global Positioning System	
GNSS	Global Navigation Satellite System	
GIS	Geographic Information System	
RS	Remote Sensing	
UAV	Unmanned Aerial Vehicle (Drone Surveying)	
LDR	Light Detection and Ranging	
DEM	Digital Elevation Model	
DTM	Digital Terrain Model	
DSM	Digital Surface Model	
GCP	Ground Control Point	
HFL	Land Use and Land Cover	
TBM	High Flood Level (Hydrographic Survey)	
BM	Bench Mark	











FS	Foresight (in leveling)
BS	Backsight (in leveling)
IS	Intermediate Sight (in leveling)
NTS	National Topographic Series (Survey Maps)
RL	Reduced Level
LOS	Line of Sight
CL	Center Line (Road Survey)
ROW	Right of Way (Land Acquisition)
KML	Keyhole Markup Language (GIS & Mapping)
CAD	Computer-Aided Design
BIM	Building Information Modeling
DLR	Digital Land Record
ROR	Record of Rights
FMB	Field Measurement Book
RSR	Revenue Survey Record
LPM	Land Parcel Mapping
GTS	Great Trigonometrical Survey
MSL	Mean Sea Level
NWL	Normal Water Level
SPM	Single Point Mooring (Hydrographic Survey)
EIA	Environmental Impact Assessment