





Model Curriculum

QP Name: Stud Welding Operator

QP Code: CSC/Q0210

QP Version: 3.0

NSQF Level: 4

Model Curriculum Version: 3.0

Capital Goods Skill Council || 1st Floor, L-29, Outer Circle, Connaught PlaceNew Delhi – 110001 || <u>Email: coo@cgsc.in</u>





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Training Parameters

Sector	Capital Goods
Sub-Sector	 Machine Tools Dies, Moulds and Press Tools Plastics Manufacturing Machinery Textile Manufacturing Machinery Process Plant Machinery Electrical and Power Machinery Light Engineering Goods
Occupation	Welding and Cutting
Country	India
NSQF Level	4
Aligned to NCO/ISCO/ISIC Code	NCO-2015/7212.0300
Minimum Educational Qualification and Experience	10th Grade Pass with 2 years of relevant experience OR 11th Grade Pass with 1 year of relevant experience OR 10th grade pass and pursuing continuous schooling OR 8th pass plus 2-year NTC plus 1-Year NAC plus 1-Year CITS OR 10th grade pass with two years of any combination of NTC/NAC/CITS or equivalent OR Pursuing 2nd year of 3-year regular Diploma (after 10th) OR Completed 2nd year of 3-year diploma (after 10th) OR 12th grade pass OR Shielded Metal Arc Welder NSQF Level 3 with 3 years of relevant experience
Pre-Requisite License or Training	NA
Minimum Job Entry Age	18 years
Last Reviewed On	31/03/2022
Next Review Date	31/03/2025
NSQC Approval Date	31/03/2022
QP Version	3.0

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Model Curriculum Creation Date	31/03/2022
Model Curriculum Valid Up to Date	31/03/2025
Model Curriculum Version	3.0
Minimum Duration of the Course	450 Hours 00 Minutes
Maximum Duration of the Course	450 Hours 00 Minutes

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 identification of raw material, tools and equipment, lifting of workpiece, inspection of tools and equipment etc.
- Perform stud welding process by following organisational procedure.
- Perform post-welding operations such as inspection, quality check, cleaning etc.
- Work effectively and efficiently as per schedules and timelines.
- Implement safety practices.
- Optimize the use of resources to ensure less wastage and maximum conservation.

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					
Module 1: Introduction to the role of a Stud Welding Operator	8:00	0:00	0:00	00:00	8:00
CSC/N1335 – Follow the health and safety practices at work NSQF Level- 3	20:00	40:00	0:00	0:00	60:00
Module 2: Health and safety practices	20:00	40:00	0:00	00:00	60:00
CSC/N1336 – Coordinate with co-workers to achieve work efficiency NSQF Level- 3	20:00	30:00	0:00	00:00	30:00
Module 3: Process of coordinating with co-workers	20:00	30:00	0:00	00:00	30:00

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to achieve work efficiency					
CSC/N0210 – Weld stud joints by stud welding process NSQF Level – 4	85:00	155:00	0:00	00:00	240:00
Module 4: Perform stud welding process	85:00	155:00	0:00	00:00	240:00
DGT/VSQ/N0102 - Employability Skills (60 hours) NSQF Level – 5	24:00	36:00	00:00	00:00	60:00
Module 5: Introduction to Employability Skills	0.5:00	1:00	00:00	00:00	1.5:00
Module 6: Constitutional values - Citizenship	0.5:00	1:00	00:00	00:00	1.5:00
Module 7: Becoming a Professional in the 21st Century	1:00	1.5:00	00:00	00:00	2.5:00
Module 8: Basic English Skills	4:00	6:00	00:00	00:00	10:00
Module 9: Career Development & Goal Setting	1:00	1:00	00:00	00:00	2:00
Module 10: Communication Skills	2:00	3:00	00:00	00:00	5:00
Module 11: Diversity & Inclusion	1:00	1.5:00	00:00	00:00	2.5:00
Module 12: Financial and Legal Literacy	2:00	3:00	00:00	00:00	5:00
Module 13: Essential Digital Skills	4:00	6:00	00:00	00:00	10:00
Module 14: Entrepreneurship	3:00	4:00	00:00	00:00	7:00
Module 15: Customer Service	2:00	3:00	00:00	00:00	5:00
Module 16: Getting ready for apprenticeship & Jobs	3:00	5:00	00:00	00:00	8:00
Total Duration	144:00	246:00	60:00	00:00	450:00





Module Details

Module 1: Introduction to the role of a Stud Welding Operator Mapped to CSC/N1335 v2.0

Terminal Outcomes:

• Discuss the role and responsibilities of a Stud Welding Operator.

Duration: 05:00	Duration: 00:00	
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes	
 List the role and responsibilities of a Stud Welding Operator. Discuss the job opportunities of a Stud Welding Operator. Describe the size and scope of the capital good industry and its sub-sectors. Explain about Indian capital goods manufacturing market. Discuss the standards and procedures involved in the different operations of welding. 		
Classroom Aids:		
Whiteboard, marker pen, projector, standard che	cklists and schedules	
Tools, Equipment and Other Requirements		
Classroom Aids: Whiteboard, marker pen, projector, standard che	cklists and schedules	





Module 2: Health and safety Practices

Mapped to CSC/N1335 v2.0

Terminal Outcomes:

- Demonstrate ways to maintain personal health and safety.
- Describe the process of assisting in hazard management.
- Explain how to check the first aid box, firefighting and safety equipment.
- Describe the process of assisting in waste management.
- Explain the importance of following the fire safety guidelines.
- Explain the importance of following the emergency and first-aid procedures.
- Demonstrate the process of carrying out relevant documentation and review.

Duration: 20:00	Duration: 35:00		
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes		
 Explain the recommended practices to be followed to ensure protection from infections and transmission to others, such as the use of hand sanitiser and face mask. Explain the importance and process of checking the work conditions, assessing the potential health and safety risks, and take appropriate measures to mitigate them. Explain the importance and process of selecting and using the appropriate PPE relevant to the task and work conditions. Explain the recommended techniques to be followed while lifting and moving heavy objects to avoid injury. Explain the importance of following the manufacturer's instructions and workplace safety guidelines while working on heavy machinery, tools and equipment. Explain the importance and process of identifying existing and potential hazards at work. Describe the process of assessing the potential risks and injuries associated with the various hazards. Explain how to prevent or minimise different types of hazards. Explain the importance of ensuring the first aid box is updated with the relevant 	 Demonstrate the use of appropriate Personal Protective Equipment (PPE) relevant to the task and work conditions. Demonstrate how to handle hazardous materials safely. Demonstrate the process of testing the firefighting and various safety equipment to ensure they are in usable condition. Demonstrate the process of recycling and disposing different types of waste appropriately. Demonstrate how to use the appropriate type of fire extinguisher to extinguish different types of fires safely. Demonstrate how to administer appropriate first aid to the injured personnel. Demonstrate the process of performing Cardiopulmonary Resuscitation (CPR) on a potential victim of cardiac arrest. Demonstrate the process of carrying out appropriate documentation following a health and safety incident at work, including all the required information. 		







first aid supplies.

- Describe the process of checking and testing the firefighting and various safety equipment to ensure they are in a usable condition.
- Explain the criteria for segregating waste into appropriate categories.
- Describe the appropriate methods for recycling recyclable waste.
- Describe the process of disposing of the non-recyclable waste safely and the applicable regulations.
- Explain the use of different types of fire extinguishers to extinguish different types of fires.
- State the recommended practices to be followed for a safe rescue during a fire emergency.
- Explain how to request assistance from the fire department to extinguish a serious fire.
- Explain the appropriate practices to be followed during workplace emergencies to ensure safety and minimise loss to organisational property.
- State the common health and safety hazards present in a work environment, associated risks, and how to mitigate them.
- State the safe working practices to be followed while working at various hazardous sites and using electrical equipment.
- Explain the importance of ensuring easy access to firefighting and safety equipment.
- Explain the appropriate preventative and remedial actions to be taken in the case of exposure to toxic materials, such as poisonous chemicals and gases.
- Explain various causes of fire in different work environments and the recommended precautions to be taken to prevent fire accidents.
- Describe different methods of extinguishing fire.
- List different materials used for extinguishing fire.
- Explain the applicable rescue techniques to be followed during a fire emergency.
- Explain the importance of placing safety signs and instructions at strategic



locations in a workplace and following them.

- Explain different types of first aid treatment to be provided for different types of injuries.
- State the potential injuries associated with incorrect manual handling.
- Explain how to move an injured person safely.
- State various hazards associated with the use of various machinery, tools, implements, equipment and materials.
- Explain the importance of ensuring no obstruction and free access to fire exits.
- Explain how to free a person from electrocution safely.
- Explain how to administer appropriate first aid to an injured person.
- Explain how to perform Cardiopulmonary Resuscitation (CPR).
- Explain the importance of coordinating with the emergency services to request urgent medical assistance for persons requiring professional medical attention or hospitalisation.
- State the appropriate documentation to be carried out following a health and safety incident at work, and the relevant information to be included.
- Explain the importance and process of reviewing the health and safety conditions at work regularly or following an incident.
- Explain the importance and process of implementing appropriate changes to improve the health and safety conditions at work.

Classroom Aids

Computer, Projection Equipment, PowerPoint Presentation and Software, Facilitator's Guide, Participant's Handbook.

Tools, Equipment and Other Requirements

Personal Protective Equipment, Cleaning Equipment and Materials, Sanitizer, Soap, Mask









Module 3: Process of coordinating with co-workers to achieve work efficiency

Mapped to CSC/N1336 v2.0

Terminal Outcomes:

- Demonstrate ways to work and communicate effectively with co-workers.
- Discuss ways to promote diversity and inclusion at the workplace.

Duration: 10:00	Duration: 20:00	
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes	
 Explain the importance and process of effective communication in the workplace. Explain the barriers to effective communication and how to overcome them. Explain the importance of teamwork in an organisation's and individual's success. Explain the importance of active listening in the work environment. State the appropriate techniques to be followed for active listening. Explain the importance of tone and pitch ineffective communication. Explain the importance of avoiding casual expletives and unpleasant terms while communicating professional circles. Explain the importance of maintaining discipline and ethical behaviour at work. State the common reasons for interpersonal conflict and how to resolve them. Explain the importance of developing effective working relationships for professional success. Describe the process of expressing and addressing grievances appropriately and effectively. Explain the importance of adhering to the limits of authority at work. Explain the importance of fillowing the applicable quality standards and timescales at work. Explain the importance of coordinating with co-workers to achieve the work objectives efficiently. 	 Demonstrate the process of preparing the relevant documents and reports as per the supervisor's instructions, providing appropriate information clearly and systematically. Demonstrate how to mentor and assist subordinates in the execution of their work responsibilities. Demonstrate the process of using various resources efficiently to ensure maximum utilisation and minimum wastage. Demonstrate how to communicate clearly and politely to ensure effective communication with co-workers. Demonstrate appropriate verbal and nonverbal communication that is respectful of genders and disability. 	





•	Explain the relevant documentation requirements.	
•	Explain the importance of providing	
	appropriate information clearly and	
	systematically in work documents.	
	State the escalation matrix to be followed	
	to deal with out of authority tasks and	
	concerns.	
	Explain the importance and process of	
	mentoring and assisting subordinates in	
	the execution of their work	
	responsibilities.	
•	Explain how to identify possible	
•	disruptions to work prevent them. Explain how to use various resources	
-	•	
	efficiently to ensure maximum utilisation	
	and minimum wastage.	
•	Explain the recommended practices to be	
	followed at work to avoid and resolve	
	conflicts at work.	
•	Explain the importance and process of	
	efficient and timely dissemination of	
	information to the authorised personnel.	
•	Explain the procedure to report	
	inappropriate behaviour e.g., harassment.	
Clas	ssroom Aids:	
Trai	ning Kit (Trainer Guide, Presentations). White	board, Marker, Projector, Laptop
Тоо	ls, Equipment and Other Requirements	
NA		





Module 4: Perform stud welding process

Mapped to CSC/N0210, v2.0

Terminal Outcomes:

- Perform the steps to carry out preparatory activities such as lifting of workpiece, inspection of tools and equipment, selection of workpiece etc.
- Demonstrate the process of stud welding.
- Perform the steps to carry out post-welding activities.



welding process.

•



Describe various stud welding operations . to join studs on different forms of metal. • Discuss the importance of monitoring . process parameters during the welding on the machine part. and correcting them as per the requirements. Discuss post welding processes like ٠ inspection, cleaning, maintenance etc. Explain methods of inspecting the quality and defects in welded studs. activities. Describe various testing techniques like . visual, destructive and non-destructive. Discuss the process of segregating, tagging welded studs. • and storing of damaged and ok workpieces as organisational per guidelines. List different methods for disposing off waste material and scrap. Discuss the necessary precautions to avoid component. any hazard and accident during welding activities.

List the steps to be performed for stud

and unthreaded fasteners of different diameters accurately on it as per requirement.

- Apply appropriate ways to check that stud welds are correctly placed and pitched out
- Read the measurement gauges and monitor the process parameters to maintain the quality standards.
- Show how to shut down the welding equipment after completion of welding
- Demonstrate appropriate inspection and testing method to check the quality of
- Demonstrate organisational procedure of cleaning and storing all the tools, machine and equipment after completion of work.
- Employ appropriate ways for checking the machine operations for any defects in the
- Show how to dispose waste as per organisational guidelines.
- Perform steps to report to the supervisor • about any problems faced or anticipated during the complete process.

Classroom Aids:

Whiteboard, marker pen, projector

Tools, Equipment and Other Requirements

- Basic tool box, Work bench with vice
- Hammer, Chisel set, Centre punch 9mm x 127mm, Dividers 20 cm, Wire brush 15 cm x 3.7 mm, Spark lighter, Number punch 6 mm and letter punch 6 mm, Scriber 15 cm, Tongs holding
- Steel rule, Screw driver set, Hacksaw frame adjustable 30 cm, Magnifying glass 15 cm, Weld measuring gauge fillet and butt, file set, Steel tape 182 cm flexible in case, Try square
- Rubber hose clips, Spindle key (for opening cylinder valve), Pressure regulator oxygen double stage, Pressure regulator acetylene regulator, Tip cleaner, Outfit spanner
- Power hacksaw, Portable grinder
- Power source, Stud welding set
- Dye penetrant test kit, Ultrasonic testing kit, Magnetic particle testing kit, X-ray testing kit
- Hand book, job orders, work order, completion material requests, and Technical Reference Books.
- Safety materials: Fire extinguisher, welding helmet, Leather sleeves, leather safety gloves, leather aprons, safety glasses with side shields, ear plug, safety shoes and first-aid kit
- Cleaning material: Tip cleaner, wire brush (M.S.), cleaning agents, cleaning cloth, waste container, dust pan and brush set, liquid soap, hand towel





Module 5: Introduction to Employability Skills

Mapped to DGT/VSQ/N0102

Terminal Outcomes:

• Discuss about Employability Skills in meeting the job requirements

Duration: <0.5:00>	Duration: <1:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
• Discuss the importance of Employability Skills in meeting the job requirements	 List different learning and employability related GOI and private portals and their usage
Classroom Aids:	·
Whiteboard, marker pen, projector	
Tools, Equipment and Other Requirements	





Module 6: Constitutional values - Citizenship

Mapped to DGT/VSQ/N0102

Terminal Outcomes:

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

Duration: <0.5:00>	Duration: <1:00>		
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes		
• Explain constitutional values, civic rights, duties, citizenship, responsibility towards society etc. that are required to be followed to become a responsible citizen.	 Show how to practice different environmentally sustainable practices 		
Classroom Aids:			
Whiteboard, marker pen, projector			
Tools, Equipment and Other Requirements			





Module 7: Becoming a Professional in the 21st Century Mapped to DGT/VSQ/N0102

Terminal Outcomes:

• Demonstrate professional skills required in 21st century

Duration: <1:00>	Duration: <1.5:00> Practical – Key Learning Outcomes	
Theory – Key Learning Outcomes		
 Discuss 21st century skills. Describe the benefits of continuous learning 	• Exhibit 21st century skills like Self- Awareness, Behavior Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn etc. in personal or professional life.	
Classroom Aids:		
Whiteboard, marker pen, projector		
Tools, Equipment and Other Requirements		





Module 8: Basic English Skills

Mapped to DGT/VSQ/N0102

Terminal Outcomes:

• Practice basic English speaking.

Duration: <4:00>	Duration: <6:00>		
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes		
 Describe basic communication skills Discuss ways to read and interpret text written in basic English 	 Show how to use basic English sentences for everyday conversation in different contexts, in person and over the telephone Read and interpret text written in basic English Write a short note/paragraph / letter/e - mail using basic English 		
Classroom Aids:			
Whiteboard, marker pen, projector			
Tools, Equipment and Other Requirements			





Module 9: Career Development & Goal Setting Mapped to DGT/VSQ/N0102

Terminal Outcomes:

• Demonstrate Career Development & Goal Setting skills.

Duration: <1:00>	Duration: <1:00>		
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes		
Discuss need of career development plan	 Demonstrate how to communicate in a well -mannered way with others. Create a career development plan with well-defined short- and long-term goals 		
Classroom Aids:			
Whiteboard, marker pen, projector			
Tools, Equipment and Other Requirements			





Module 10: Communication Skills

Mapped to DGT/VSQ/N0102

Terminal Outcomes:

• Practice basic communication skills.

Practical – Key Learning Outcomes		
 Demonstrate how to communicate effectively using verbal and nonverbal communication etiquette 		





Module 11: Diversity & Inclusion

Mapped to DGT/VSQ/N0102

Terminal Outcomes:

• Describe PwD and gender sensitisation.

Duration: <1:00>	Duration: <1.5:00> Practical – Key Learning Outcomes		
Theory – Key Learning Outcomes			
Discuss the significance of reporting sexual harassment issues in time	 Demonstrate how to behave, communicate, and conduct oneself appropriately with all genders and PwD 		
Classroom Aids:			
Whiteboard, marker pen, projector			
Tools, Equipment and Other Requirements			





Module 12: Financial and Legal Literacy Mapped to DGT/VSQ/N0102

Terminal Outcomes:

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

Duration: <2:00>	Duration: <3:00> Practical – Key Learning Outcomes	
Theory – Key Learning Outcomes		
 List the common components of salary and compute income, expenditure, taxes, investments etc. Discuss the legal rights, laws, and aids 	 Outline the importance of selecting the right financial institution, product, and service Demonstrate how to carry out offline and online financial transactions, safely and securely 	
Classroom Aids:		
Whiteboard, marker pen, projector		
Tools, Equipment and Other Requirements		





Module 13: Essential Digital Skills

Mapped to DGT/VSQ/N0102

Terminal Outcomes:

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

Duration: <4:00>	Duration: <6:00>	
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes	
 Describe the role of digital technology in today's life Discuss the significance of using internet for browsing, accessing social media platforms, safely and securely 	 Show how to operate digital devices and use the associated applications and features, safely and securely Create sample word documents, excel sheets and presentations using basic features Utilize virtual collaboration tools to work effectively 	
Classroom Aids:		
Whiteboard, marker pen, projector		
Tools, Equipment and Other Requirements		





Module 14: Entrepreneurship

Mapped to DGT/VSQ/N0102

Terminal Outcomes:

• Describe opportunities as an entrepreneur.

Theory – Key Learning OutcomesPrace• Explain the types of entrepreneurship and enterprises•• Discuss how to identify opportunities for potential business, sources of funding and associated financial and legal risks with its mitigation plan•• Describe the 4Ps of Marketing-Product, Price, Place and Promotion and apply them as per requirement•	Duration: <4:00>		
 enterprises Discuss how to identify opportunities for potential business, sources of funding and associated financial and legal risks with its mitigation plan Describe the 4Ps of Marketing-Product, Price, Place and Promotion and apply them as per requirement 	Practical – Key Learning Outcomes		
Classroom Aids:	Create a sample business plan, for the selected business opportunity		
Whiteboard, marker pen, projector			
Tools, Equipment and Other Requirements			





Module 15: Customer Service

Mapped to DGT/VSQ/N0102

Terminal Outcomes:

• Describe ways of maintaining customer.

Duration: <2:00>	Duration: <3:00>		
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes		
 Explain the significance of identifying customer needs and addressing them. Explain the significance of identifying customer needs and responding to them in a professional manner. Discuss the significance of maintaining hygiene and dressing appropriately. 	 Demonstrate how to maintain 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/N0102

Terminal Outcomes:

• Describe ways of preparing for apprenticeship & Jobs appropriately.

Duration: <3:00>	Duration: <5:00>		
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes		
 Discuss the significance of maintaining hygiene and confidence during an interview List the steps for searching and registering for apprenticeship opportunities 	 Create a professional Curriculum Vitae (CV) Use various offline and online job search sources such as employment exchanges, recruitment agencies, and job portals respectively Perform a mock interview 		
Classroom Aids:			
Whiteboard, marker pen, projector			
Tools, Equipment and Other Requirements			





On-the-Job Training

Mapped to Stud Welding Operator

Mandatory Duration: 60:00	Recommended Duration: 00:00			
Location: On Site				
Terminal Outcomes				
• Read the drawings and job orde	r to identify work requirements			
Identify the requirements of stud welding process				
Select and arrange required tools and equipment				
Identify the requirements of stud welding process				
Set the operating parameters of stud welding apparatus				
Perform stud welding process to obtain required shape and size of workpiece				
• Supervise the welding process and support the operators during welding process				
Check the quality of workpiece after welding process				
 Segregate the defective and correct pieces as per the standards 				
 Interact and coordinate with supervisor and colleagues 				
• Work as per the given timeline a	and quality standards			
• Maintain a safe, healthy and sec	cure work environment			





Annexure

Trainer Requirements

Trainer Prerequisites						
Minimum Specialization Educational			Relevant Industry Experience		g Experience	Remarks
Qualification	Years	Specialization	Years	Specialization		
Diploma	Mechanical	4	Welding	1	Welding	NA
B.E/B.Tech	Mechanical	3	Welding	1	Welding	NA

Trainer Certification		
Domain Certification	Platform Certification	
"Stud Welding Operator, CSC/Q0210, version 3.0".	"Trainer, MEP/Q2601 v1.0"	
Minimum accepted score is 80%.	Minimum accepted score is 80%.	



Assessor Requirements



Assessor Prerequisites							
Minimum Educational	Specialization	Relevant Industry Experience		Training/Assessment Experience		Remarks	
Qualification		Years	Specialization	Years	Specialization		
Diploma	Mechanical	4	Welding	1	Welding	NA	
B.E/B.Tech	Mechanical	3	Welding	1	Welding	NA	

Assessor Certification				
Domain Certification	Platform Certification			
"Stud Welding Operator, CSC/Q0210, version 3.0". Minimum accepted score is 80%.	Certified for the Job Role: "Assessor" (VET and skills, mapped to the Qualification Pack: "MEP/Q2701, v2.0", with a 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

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).
(M) TLO	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

NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
TVET	Technical and Vocational Education and Training
SOP	Standard Operating Procedure
WI	Work Instructions
PPE	Personal Protective equipment