



# Model Curriculum

**QP Name: Automotive Welding Machine Assistant**

**QP Code: ASC/Q3101**

**NSQF Level: 2**

Automotive Skill Development Council  
E-113 GF, Okhla Phase III, Okhla Industrial Area, New Delhi, Delhi 110020

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## Training Parameters

<b>Sector</b>	Automotive
<b>Sub-Sector</b>	Manufacturing
<b>Occupation</b>	Metal Joining
<b>Country</b>	India
<b>NSQF Level</b>	2
<b>Aligned to NCO/ISCO/ISIC Code</b>	NCO-2015/7212.0801
<b>Minimum Educational Qualification and Experience</b>	5th Class
<b>Pre-Requisite License or Training</b>	NA
<b>Minimum Job Entry Age</b>	14 years
<b>Last Reviewed On</b>	25/03/2021
<b>Next Review Date</b>	25/03/2026
<b>NSQC Approval Date</b>	25/03/2021
<b>Model Curriculum Creation Date</b>	25/03/2021
<b>Model Curriculum Valid Up to Date</b>	25/03/2026
<b>Minimum Duration of the Course</b>	300 Hours 00 Minutes
<b>Maximum Duration of the Course</b>	300 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.

- Carry out pre-welding activities in coordination with welding operator.
- Carry out the support activities related to the welding operations.
- Complete post welding operations under the guidance of the welding operator.
- 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
<b>Bridge Module</b>	<b>05:00</b>	<b>00:00</b>			<b>05:00</b>
Module 1: Introduction to the role of an Automotive Welding Machine Assistant	05:00	00:00			05:00
<b>ASC/N9803 – Organize work and resources (Manufacturing) NOS Version No. – 1.0 NSQF Level – 2</b>	<b>25:00</b>	<b>30:00</b>			<b>55:00</b>
Module 2: Organize work and resources according to safety and conservation standards	25:00	30:00			55:00
<b>ASC/N3101 – Support the welding operator in routine welding activities NOS Version No. – 2.0 NSQF Level - 2</b>	<b>50:00</b>	<b>130:00</b>	<b>30:00</b>		<b>210:00</b>
Module 3: Prepare for welding operations	30:00	75:00	30:00		135:00
Module 4: Support in welding and post-welding operations	20:00	55:00			75:00
<b>DGT/VSQ/N0101 - Employability Skills (30 hours) NOS Version No. – 1.0 NSQF Level – 2</b>	<b>12:00</b>	<b>18:00</b>			<b>30:00</b>
Module 5: Introduction to Employability Skills	0.5:00	0.5:00			1:00
Module 6: Constitutional values - Citizenship	0.5:00	0.5:00			1:00
Module 7: Becoming a Professional in the 21st	0.5:00	0.5:00			1:00

Century					
Module 8: Basic English Skills	1:00	1:00			2:00
Module 9: Communication Skills	1.5:00	2.5:00			4:00
Module 10: Diversity & Inclusion	0.5:00	0.5:00			1:00
Module 11: Financial and Legal Literacy	1.5:00	2.5:00			4:00
Module 12: Essential Digital Skills	1:00	2:00			3:00
Module 13: Entrepreneurship	2.5:00	4.5:00			7:00
Module 14: Customer Service	1.5:00	2.5:00			4:00
Module 15: Getting ready for apprenticeship & Jobs	1:00	1:00			2:00
<b>Total Duration</b>	<b>92:00</b>	<b>178:00</b>	<b>30:00</b>		<b>300:00</b>

# Module Details

## Module Name 1: Introduction to the role of an Automotive Welding Machine Assistant

### *Bridge module*

#### Terminal Outcomes:

- Discuss the role and responsibilities of an Automotive Welding Machine Assistant.

Duration: <05:00>	Duration: <00:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> <li>• List the role and responsibilities of an Automotive Welding Machine Assistant.</li> <li>• Discuss the job opportunities of an Automotive Welding Machine Assistant.</li> <li>• Explain about Indian automotive manufacturing market.</li> <li>• List various automobile Original Equipment Manufacturers (OEMs) and different products/ models manufactured by them.</li> <li>• Discuss the standards and procedures involved in the different operations of welding.</li> </ul>	
<b>Classroom Aids:</b>	
Whiteboard, marker pen, projector	
<b>Tools, Equipment and Other Requirements</b>	

## Module Name 2: Organize work and resources according to safety and conservation standards

### Mapped to ASC/N9803 v1.0

#### Terminal Outcomes:

- Employ appropriate ways to maintain safe and secure working environment.
- Perform work as per the quality standards.
- Apply conservation practices at the workplace.

Duration: <25:00>	Duration: <30:00>
<b>Theory – Key Learning Outcomes</b> <ul style="list-style-type: none"> <li>• List the potential workplace related risks and hazards, their causes and preventions.</li> <li>• Identify PPE to be used at workplace.</li> <li>• Identify various warning signs used at the workplace.</li> <li>• Describe appropriate strategies to deal with emergencies and accidents at the workplace.</li> <li>• Outline the organizational structure to be followed to report about health, safety and security breaches to the concerned authorities.</li> <li>• Discuss the importance of keeping work area clean and tidy.</li> <li>• Discuss the significance of conforming to basic hygiene practices such as washing hands, using alcohol based hand sanitizers or soap.</li> <li>• Discuss organizational hygiene and sanitation guidelines and ways of reporting breaches/gaps if any to the concerned authorities.</li> <li>• Discuss the ways of dealing with stress and anxiety.</li> <li>• Discuss how to complete the given work within the stipulated time period.</li> <li>• Explain how to maintain a proper balance between team and individual goals.</li> <li>• Explain 5S guidelines at workplace.</li> <li>• List the various materials used at the workplace.</li> <li>• Explain organisational recommended procedure for storage of tools, equipment and material after completion of work.</li> <li>• Explain the ways to optimize usage of resources.</li> <li>• Discuss various methods of waste management and its disposal.</li> <li>• List the different categories of waste for</li> </ul>	<b>Practical – Key Learning Outcomes</b> <ul style="list-style-type: none"> <li>• Apply appropriate safety practices to ensure safety of people at the workplace</li> <li>• Display the correct way of wearing and removing PPE such as face masks, hand gloves, face shields, PPE suits, etc.</li> <li>• Demonstrate the use of fire extinguisher.</li> <li>• Apply basic first aid procedure in case of emergencies.</li> <li>• Perform routine cleaning of tools, equipment and machines.</li> <li>• Employ various techniques for checking malfunctions in the equipment as per Standard Operating Procedure (SOP).</li> <li>• Show how to sanitize and disinfect one's work area regularly.</li> <li>• Demonstrate the correct way of washing hands using soap and water.</li> <li>• Demonstrate the correct way of sanitizing hands using alcohol-based hand rubs.</li> <li>• Demonstrate how to evacuate the workplace in case of an emergency.</li> <li>• Demonstrate sorting of materials, tools and equipment and spare parts after completion of work.</li> <li>• Demonstrate the steps involved in storage of tools, equipment and material after completion of work.</li> <li>• Perform basic checks to identify any spills and leaks and that need to be plugged /stopped.</li> <li>• Demonstrate different disposal techniques depending upon types of waste.</li> <li>• Employ different ways to check if equipment/machines are functioning as per requirements and report malfunctioning, if observed.</li> <li>• Employ ways for efficient utilization of material and water.</li> </ul>

<p>the purpose of segregation</p> <ul style="list-style-type: none"> <li>• Differentiate between recyclable and non-recyclable waste</li> <li>• State the importance of using appropriate colour dustbins for different types of waste.</li> <li>• Discuss common practices for conserving electricity at workplace.</li> <li>• Discuss the common sources of pollution and ways to minimize it.</li> </ul>	
<p><b>Classroom Aids:</b></p>	
<p>Whiteboard, marker pen, projector</p>	
<p><b>Tools, Equipment and Other Requirements</b></p>	
<ul style="list-style-type: none"> <li>• Housekeeping material: Cleaning agents, cleaning cloth, waste container, dust pan and brush set, liquid soap, hand towel, fire extinguisher</li> <li>• Safety gears: Safety shoes, ear plug, goggles, gloves, helmet, first-aid kit</li> </ul>	



## Module Name 3: Prepare for welding operations

### Mapped to ASC/N3101 v2.0

#### Terminal Outcomes:

- Identify tools and equipment required for welding operations.
- Perform the steps to carry out pre-welding activities such as lifting of workpiece, inspection of tools and equipment etc.

Duration: <30:00>	Duration: <75:00>
<b>Theory – Key Learning Outcomes</b>	<b>Practical – Key Learning Outcomes</b>
<ul style="list-style-type: none"> <li>• Discuss basic principle of welding process.</li> <li>• Elucidate various types of welding (SMAW, MIG, MAG, TIG, Resistance Welding, Robotic Welding etc), welding joints and welding positions.</li> <li>• List tools, measuring instruments, equipment, accessories, consumables and input material required during welding work.</li> <li>• Discuss the organisational process of collecting and arranging tools, equipment, accessories, consumables, measuring instruments and input material from the store.</li> <li>• Summarise the steps to be performed for checking the input material, tools and equipment for any defects and quality standard</li> <li>• List the steps to be performed for installing the work pieces and fixture on the apparatus and aligning with the electrodes as per requirements.</li> <li>• Discuss the ways to handle the work pieces and machine auxiliaries safely while loading on the machine apparatus.</li> </ul>	<ul style="list-style-type: none"> <li>• Apply appropriate ways of checking the input material, tools and equipment for defects before use.</li> <li>• Demonstrate the standard operating procedure to use tools, equipment and measuring instruments required during job.</li> <li>• Demonstrate how to support the welding operator in installing the work pieces and fixture on the apparatus and aligning with the electrodes.</li> <li>• Show how to load the work pieces and machine auxiliaries safely on the machine manually or by using lifting equipment.</li> </ul>
<b>Classroom Aids:</b>	
Whiteboard, marker pen, projector	
<b>Tools, Equipment and Other Requirements</b>	
<ul style="list-style-type: none"> <li>• Basic tool box, Work bench with vice</li> <li>• Hammer scaling 0.25 kg. with handle, Hammer ball pin 1 kg. with handle, Chisel cold flat 19 mm, Chisel cold cross 9mm, Centre punch 9mm x 127mm, Dividers 20 cm, Wire brush 15 cm x 3.7 mm, Spark lighter, Chipping screen hand, Number punch 6 mm and letter punch 6 mm, Square blade 15 cm, Scriber 15 cm, Tongs holding</li> <li>• Brass rule 30 cm or nickel chrome steel rule 30 cm, Screw driver 25cm blade and 20 cm blade, Hacksaw frame adjustable 30 cm, Magnifying glass 15 cm, Weld measuring gauge fillet and</li> </ul>	

butt, File half round bastard 30 cm, File flat 35 cm rough, 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, TIG welding set complete 300 amps with flexible coupling copper wound, Welding cables to carry 350 amps with flexible rubber copper, GMAW/MIG welding set, Spot / Butt 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 4

### Module Name: Support in welding and post-welding operations

#### Mapped to ASC/N3101 v2.0

#### Terminal Outcomes:

- Demonstrate how to support welding operator during welding operations.
- Perform the steps to carry out post-welding activities.

Duration: <20:00>	Duration: <55:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> <li>• Discuss the appropriate way of holding tools during the welding operations.</li> <li>• List consumables and accessories required during the welding work.</li> <li>• Describe finishing processes such as dimensions check, removing extra material, hammering workpiece into desired shape etc. as per the required specifications.</li> <li>• Discuss the process of unloading and placing the welded components on the designated place as per the work instructions.</li> <li>• Explain the process of checking the irregularities of welded input as per the specified quality standards.</li> <li>• Discuss the safety practices to be followed to avoid any hazard and accident during welding activities.</li> <li>• Discuss post welding processes like inspection, cleaning, maintenance etc.</li> <li>• Explain methods of inspecting the quality of welded workpieces.</li> <li>• Discuss the process of segregating, tagging and storing of damaged and ok workpieces as per organisational guidelines.</li> <li>• Discuss various cleaning methods to clean the tools, equipment, process auxiliaries and work area.</li> <li>• Recall organisational recommended procedure for storage of the tools, equipment and process auxiliaries after completion of work.</li> <li>• List different methods for disposing off waste material.</li> </ul>	<ul style="list-style-type: none"> <li>• Show how to hold the tools during welding operations in the correct manner and safely.</li> <li>• Apply appropriate ways to remove the extra material and bulges from the welded piece to get the desired shape as per the required specifications.</li> <li>• Perform the steps of unloading welded components from fixture and placing them on the designated place by using lifting tools.</li> <li>• Employ appropriate inspection methods to check the quality of welded workpieces.</li> <li>• Show how to segregate, tag and store the welded pieces as per organisational guidelines, in coordination with welding operator.</li> <li>• Apply appropriate cleaning methods to clean the tools, equipment and process after completion of work</li> <li>• Demonstrate the organisational procedure involved in storage of tools, equipment and process auxiliaries after completion of work.</li> <li>• Apply appropriate ways to remove chips from different machine areas and clean the work area.</li> <li>• Show how to dispose waste as per organisational guidelines.</li> </ul>
<b>Classroom Aids:</b>	
Whiteboard, marker pen, projector	
<b>Tools, Equipment and Other Requirements</b>	

- Basic tool box, Work bench with vice
- Hammer scaling 0.25 kg. with handle, Hammer ball pin 1 kg. with handle, Chisel cold flat 19 mm, Chisel cold cross 9mm, Centre punch 9mm x 127mm, Dividers 20 cm, Wire brush 15 cm x 3.7 mm, Spark lighter, Chipping screen hand, Number punch 6 mm and letter punch 6 mm, Square blade 15 cm, Scriber 15 cm, Tongs holding
- Brass rule 30 cm or nickel chrome steel rule 30 cm, Screw driver 25cm blade and 20 cm blade, Hacksaw frame adjustable 30 cm, Magnifying glass 15 cm, Weld measuring gauge fillet and butt, File half round bastard 30 cm, File flat 35 cm rough, 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, TIG welding set complete 300 amps with flexible coupling copper wound, Welding cables to carry 350 amps with flexible rubber copper, GMAW/MIG welding set, Spot / Butt 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/N0101

#### Terminal Outcomes:

- Discuss about Employability Skills in meeting the job requirements

Duration: <0.5:00>	Duration: <0.5:00>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> <li>• Discuss the importance of Employability Skills in meeting the job requirements</li> </ul>	<ul style="list-style-type: none"> <li>• Demonstrate Employability Skills</li> </ul>
<b>Classroom Aids:</b>	
Whiteboard, marker pen, projector	
<b>Tools, Equipment and Other Requirements</b>	

## Module 6: Constitutional values - Citizenship

### Mapped to DGT/VSQ/N0101

#### Terminal Outcomes:

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

<b>Duration:</b> <0.5:00>	<b>Duration:</b> <0.5:00>
<b>Theory – Key Learning Outcomes</b>	<b>Practical – Key Learning Outcomes</b>
<ul style="list-style-type: none"> <li>Explain constitutional values, civic rights, duties, citizenship, responsibility towards society etc. that are required to be followed to become a responsible citizen.</li> </ul>	<ul style="list-style-type: none"> <li>Show how to practice different environmentally sustainable practices</li> </ul>
<b>Classroom Aids:</b>	
Whiteboard, marker pen, projector	
<b>Tools, Equipment and Other Requirements</b>	

## Module 7: Becoming a Professional in the 21st Century

### Mapped to DGT/VSQ/N0101

#### Terminal Outcomes:

- Demonstrate professional skills required in 21<sup>st</sup> century

<b>Duration:</b> <0.5:00>	<b>Duration:</b> <0.5:00>
<b>Theory – Key Learning Outcomes</b>	<b>Practical – Key Learning Outcomes</b>
<ul style="list-style-type: none"> <li>Discuss 21st century skills.</li> </ul>	<ul style="list-style-type: none"> <li>Display positive attitude, self -motivation, problem solving, time management skills and continuous learning mindset in different situations.</li> </ul>
<b>Classroom Aids:</b>	
Whiteboard, marker pen, projector	
<b>Tools, Equipment and Other Requirements</b>	

## Module 8: Basic English Skills

### Mapped to DGT/VSQ/N0101

#### Terminal Outcomes:

- Practice basic English speaking.

<b>Duration:</b> <1:00>	<b>Duration:</b> <1:00>
<b>Theory – Key Learning Outcomes</b>	<b>Practical – Key Learning Outcomes</b>
<ul style="list-style-type: none"> <li>Discuss need of basic English skills.</li> </ul>	<ul style="list-style-type: none"> <li>Use appropriate basic English sentences/phrases while speaking</li> </ul>
<b>Classroom Aids:</b>	
Whiteboard, marker pen, projector	
<b>Tools, Equipment and Other Requirements</b>	

## Module 9: Communication Skills

### Mapped to DGT/VSQ/N0101

Terminal Outcomes:

- Practice basic communication skills.

<b>Duration:</b> <1.5:00>	<b>Duration:</b> <2.5:00>
<b>Theory – Key Learning Outcomes</b>	<b>Practical – Key Learning Outcomes</b>
<ul style="list-style-type: none"> <li>Discuss need of communication skills</li> <li>Describe importance of team work</li> </ul>	<ul style="list-style-type: none"> <li>Demonstrate how to communicate in a well-mannered way with others.</li> <li>Demonstrate working with others in a team</li> </ul>
<b>Classroom Aids:</b>	
Whiteboard, marker pen, projector	
<b>Tools, Equipment and Other Requirements</b>	

## Module 10: Diversity & Inclusion

### Mapped to DGT/VSQ/N0101

Terminal Outcomes:

- Describe PwD and gender sensitisation.

<b>Duration:</b> <0.5:00>	<b>Duration:</b> <0.5:00>
<b>Theory – Key Learning Outcomes</b>	<b>Practical – Key Learning Outcomes</b>

<ul style="list-style-type: none"> <li>Discuss the significance of reporting sexual harassment issues in time</li> </ul>	<ul style="list-style-type: none"> <li>Show how to conduct oneself appropriately with all genders and PwD</li> </ul>
<b>Classroom Aids:</b>	
Whiteboard, marker pen, projector	
<b>Tools, Equipment and Other Requirements</b>	

## Module 11: Financial and Legal Literacy

### Mapped to DGT/VSQ/N0101

#### Terminal Outcomes:

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

<b>Duration:</b> <1.5:00>	<b>Duration:</b> <2.5:00>
<b>Theory – Key Learning Outcomes</b>	<b>Practical – Key Learning Outcomes</b>
<ul style="list-style-type: none"> <li>Discuss the significance of using financial products and services safely and securely.</li> <li>Explain the importance of managing expenses, income, and savings.</li> <li>Explain the significance of approaching the concerned authorities in time for any exploitation as per legal rights and laws</li> </ul>	<ul style="list-style-type: none"> <li>Demonstrate ways of managing expenses, income, and savings.</li> </ul>
<b>Classroom Aids:</b>	
Whiteboard, marker pen, projector	
<b>Tools, Equipment and Other Requirements</b>	

## Module 12: Essential Digital Skills

### Mapped to DGT/VSQ/N0101

#### Terminal Outcomes:

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

<b>Duration:</b> <1:00>	<b>Duration:</b> <2:00>
<b>Theory – Key Learning Outcomes</b>	<b>Practical – Key Learning Outcomes</b>
<ul style="list-style-type: none"> <li>Discuss the significance of using internet for browsing, accessing social media platforms, safely and securely</li> </ul>	<ul style="list-style-type: none"> <li>Show how to operate digital devices and use the associated applications and features, safely and securely</li> </ul>

<b>Classroom Aids:</b>
Whiteboard, marker pen, projector
<b>Tools, Equipment and Other Requirements</b>

## Module 13: Entrepreneurship

### Mapped to DGT/VSQ/N0101

#### Terminal Outcomes:

- Describe opportunities as an entrepreneur.

<b>Duration:</b> <2.5:00>	<b>Duration:</b> <4.5:00>
<b>Theory – Key Learning Outcomes</b>	<b>Practical – Key Learning Outcomes</b>
<ul style="list-style-type: none"> <li>Discuss the need for identifying opportunities for potential business, sources for arranging money and potential legal and financial challenges</li> </ul>	<ul style="list-style-type: none"> <li>Demonstrate ways for identifying opportunities for potential business, sources for arranging money and potential legal and financial challenges</li> </ul>
<b>Classroom Aids:</b>	
Whiteboard, marker pen, projector	
<b>Tools, Equipment and Other Requirements</b>	

## Module 14: Customer Service

### Mapped to DGT/VSQ/N0101

#### Terminal Outcomes:

- Describe ways of maintaining customer.

<b>Duration:</b> <1.5:00>	<b>Duration:</b> <2.5:00>
<b>Theory – Key Learning Outcomes</b>	<b>Practical – Key Learning Outcomes</b>
<ul style="list-style-type: none"> <li>Differentiate between types of customers.</li> <li>Explain the significance of identifying customer needs and addressing them.</li> <li>Discuss the significance of maintaining hygiene and dressing appropriately.</li> </ul>	<ul style="list-style-type: none"> <li>Show how to maintain hygiene and dressing appropriately.</li> </ul>
<b>Classroom Aids:</b>	
Whiteboard, marker pen, projector	
<b>Tools, Equipment and Other Requirements</b>	



## Module 15: Getting ready for apprenticeship & Jobs

### Mapped to DGT/VSQ/N0101

#### Terminal Outcomes:

- Describe ways of preparing for apprenticeship & Jobs appropriately.

<b>Duration:</b> <1:00>	<b>Duration:</b> <1:00>
<b>Theory – Key Learning Outcomes</b>	<b>Practical – Key Learning Outcomes</b>
<ul style="list-style-type: none"> <li>Discuss the significance of dressing up neatly and maintaining hygiene for an interview</li> <li>Discuss how to search and register for apprenticeship opportunities</li> </ul>	<ul style="list-style-type: none"> <li>Create a biodata</li> <li>Use various sources to search and apply for jobs</li> </ul>
<b>Classroom Aids:</b>	
Whiteboard, marker pen, projector	
<b>Tools, Equipment and Other Requirements</b>	

# Annexure

## Trainer Requirements

Trainer Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training Experience		Remarks
		Years	Specialization	Years	Specialization	
ITI	Welder	2	Welding	1	Welding	NA
ITI	Welder	3	Welding	0	Welding	NA
Certificate NSQF- Level 4	Automotive Welding Machine Technician	2	Welding	1	Welding	NA
Diploma	Mechanical/Automobile	1	Welding	1	Welding	NA
Diploma	Mechanical/Automobile	2	Welding	0	Welding	NA

Trainer Certification	
Domain Certification	Platform Certification
<p>“Automotive Welding Machine Assistant, ASC/Q3101, version 2.0”. Minimum accepted score is 80%.</p>	<p>Recommended that the trainer is certified for the job role “Trainer (VET and Skills)”, Mapped to Qualification Pack: MEP/Q2601, V2.0” Minimum accepted score is 80%</p>

## Assessor Requirements

Assessor Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training/Assessment Experience		Remarks
		Years	Specialization	Years	Specialization	
ITI	Welder	3	Welding	1	Welding	NA
ITI	Welder	4	Welding	0	Welding	NA
Certificate NSQF- Level 4	Automotive Welding Machine Technician	3	Welding	1	Welding	NA
Diploma	Mechanical/Automobile	2	Welding	1	Welding	NA
Diploma	Mechanical/Automobile	3	Welding	0	Welding	NA

Assessor Certification	
Domain Certification	Platform Certification
<p>“Automotive Welding Machine Assistant, ASC/Q3101, version 2.0”. Minimum accepted score is 80%.</p>	<p>Recommended that the Assessor is certified for the job role “Assessor (VET and Skills)”, Mapped to Qualification Pack: MEP/Q2701, V2.0” Minimum accepted score is 80%</p>

## 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
<b>Declarative Knowledge</b>	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.
<b>Key Learning Outcome</b>	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).
<b>OJT (M)</b>	On-the-job training (Mandatory); trainees are mandated to complete specified hours of training on site
<b>OJT (R)</b>	On-the-job training (Recommended); trainees are recommended the specified hours of training on site
<b>Procedural Knowledge</b>	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.
<b>Training Outcome</b>	Training outcome is a statement of what a learner will know, understand and be able to do upon the completion of the training.
<b>Terminal Outcome</b>	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

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