







Model Curriculum

QP Name: Assistant Manual Metal Arc Welding/ Shielded Metal Arc Welding Welder

QP Code: CSC/Q0202

QP Version: 2.0

NSQF Level: 2

Model Curriculum Version: 2.0

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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	2			
Aligned to NCO/ISCO/ISIC Code	NCO-2015/7212.0200			
Minimum Educational Qualification and Experience	Ability to read and write, wherever required or 5th Class			
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	2.0			
Model Curriculum Creation Date	31/03/2022			
Model Curriculum Valid Up to Date	31/03/2025			
Model Curriculum Version	2.0			
Minimum Duration of the Course	300 Hours 00 Minutes			
Maximum Duration of the Course	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.

- Perform preparatory activities such as identification of raw material, tools and equipment, lifting of workpiece, inspection of tools and equipment etc.
- Support MMAW welder during welding and cutting process by following organisational procedure.
- Perform and support MMAW welder during post-welding and cutting 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 an Assistant Manual Metal Arc Welding/ Shielded Metal Arc Welding Welder	8:00	0:00	0:00	00:00	8:00
CSC/N1335 - Follow the health and safety practices at work NOS Version- 2.0 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 NOS Version-2.0 NSQF Level- 3	20:00	30:00	0:00	00:00	50:00
Module 3: Process of coordinating with co-workers to achieve work efficiency	20:00	30:00	0:00	00:00	50:00
CSC/N0202 – Support MMAW welder in welding and cutting process NOS Version No. – 2.0 NSQF Level - 2	42:00	140:00	0:00	00:00	182:00
Module 4: Support in welding process	22:00	70:00	0:00	00:00	92:00







Module 5: Support in cutting process	20:00	70:00	0:00	00:00	90:00
Total Duration	90:00	210:00	0:00	00:00	300:00







Module Details

Module 1: Introduction to the role of an Assistant Manual Metal Arc Welding/ Shielded Metal Arc Welding Welder

Bridge module

Terminal Outcomes:

 Discuss the role and responsibilities of an Assistant Manual Metal Arc Welding/ Shielded Metal Arc Welding Welder.

Duration: 00:00					
Practical – Key Learning Outcomes					
ecklists and schedules					
Tools, Equipment and Other Requirements					







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: 40:00

Theory – 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 how to handle and store hazardous materials safely.
- Explain the importance of ensuring the first aid box is updated with the relevant first aid supplies.
- Describe the process of checking and testing the firefighting and various safety equipment to ensure they are in a usable

Practical – Key Learning Outcomes

- 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.







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: 20:00	Duration: 30:00		
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 and process of planning daily tasks to ensure their timely completion and efficient use of time. Explain the importance of adhering to the limits of authority at work. Explain the importance of following the applicable quality standards and timescales at work. Explain the importance of coordinating 	 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 non verbal communication that is respectful or genders and disability. 		

documentation

with co-workers to achieve the work

relevant

objectives efficiently.

Explain the

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.

Classroom Aids:

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

Tools, Equipment and Other Requirements

NA







Module 4: Support in welding process

Mapped to CSC/N0202, v2.0

Terminal Outcomes:

- Identify tools and equipment required for MMAW operations.
- 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 welding process.
- Perform the steps to carry out post-welding activities.

Duration: 22:00	Duration: 70:00		
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes		
 Discuss basic principle of welding process. Describe basic process of MMAW welding. Describe different types of welds and welding joints. 	 Read the drawing, WPS and job orders for identifying work requirements. Apply appropriate ways of checking the input material, tools and equipment for 		

- Describe different welding positions.
- Discuss the information derived from the orders, Welding Procedure Specification (WPS) and engineering drawings and instructions received from MMAW welder.
- tools, measuring instruments, equipment, accessories, consumables and input material required during welding work.
- Explain the selection criteria of tools, equipment, accessories, consumables, measuring instruments and input material for the welding work.
- Discuss the organisational process of collecting and arranging tools, equipment, accessories, consumables, measuring instruments and input material from the store.
- Summarise the steps to be performed for checking the input material, tools and equipment before use.
- Discuss the importance of maintaining welding parameters as per the Work Instructions (WI) and their impact on quality and quantity of output product.
- List the steps to be performed for joint preparation process.
- List the steps to be performed for MMAW process.
- Describe various MMAW operations to produce different joints on different forms of metal.
- Describe finishing processes such as

- defects before use.
- Demonstrate the standard operating procedure to use tools, equipment and measuring instruments required during job.
- Show how to prepare the work area for welding activities.
- Show how to prepare the materials and joint for welding process.
- Show how to support welder during setting of the welding apparatus and their parameters as per the work instructions.
- Demonstrate the procedure of installing the work pieces and fixture on the apparatus and aligning with electrodes.
- specified Demonstrate organizational procedure of starting MMAW machine and support welder in performing MMAW process in all positions for producing different type of joints.
- Read the measurement gauges and monitor the process parameters to maintain the quality standards.
- Employ appropriate ways of measuring and comparing welded piece dimensions with the specified dimensions in the job orders.
- Apply appropriate ways to check and repair the extra material and bulges from the hammered welded piece to get the desired shape as per the required specifications.
- Show how to shut down the welding







dimensions check, removing extra material, hammering workpiece into desired shape etc. as per the required specifications.

- Discuss post welding processes like inspection, cleaning, maintenance etc.
- Explain methods of inspecting the quality of welded workpieces.
- List the commonly occurring defects and their remedies in the welded workpieces.
- Describe various various testing techniques like visual, destructive and non-destructive.
- Discuss the process of segregating, tagging and storing of damaged and ok workpieces as per organisational guidelines.
- List different methods for disposing off waste material and scrap.
- Discuss the necessary precautions to avoid any hazard and accident during welding activities.

- equipment and remove the workpiece after completion of welding activities.
- Demonstrate appropriate inspection method to check the quality of welded workpieces.
- Employ appropriate testing methods like destructive and non-destructive tests for checking the quality of welded workpiece.
- Demonstrate procedure to segregate, tag and store welded pieces as per organisational guidelines.
- Demonstrate organisational procedure of cleaning and storing all the tools, machine and equipment after completion of work.
- Show how to dispose waste as per organisational guidelines.

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, MMAW 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
- **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: Support in cutting process

Mapped to CSC/N0202, v2.0

Terminal Outcomes:

- Identify tools and equipment required for oxy gas cutting operations.
- 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 cutting process.
- Perform the steps to carry out post-cutting activities.

Duration: 20:00	Duration: 70:00		
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes		
 Discuss basic principle of cutting process. Describe oxy gas cutting operations. Discuss the information derived from the job orders, Welding Procedure Specification (WPS) and engineering drawings and instructions received from MMAW welder. List tools, measuring instruments, equipment, accessories, consumables and input material required during cutting work. Explain the selection criteria of tools, equipment, accessories, consumables, measuring instruments and input material 	 Read the drawing, WPS and job orders for identifying work requirements. Apply appropriate ways of checking the input material, tools and equipment for defects before use. Demonstrate the standard operating procedure to use tools, equipment and measuring instruments required during job. Show how to prepare the work area for cutting activities. Show how to prepare the materials for cutting process. Show how to support welder during 		
for the cutting work.Discuss the organisational process of	setting of the oxy gas cutting apparatus and their parameters as per the work		
collecting and arranging tools, equipment,	instructions.		
accessories, consumables, measuring instruments and input material from the	 Demonstrate organizational specified procedure of starting gas cutting machine 		

- store.
 Summarise the steps to be performed for checking the input material, tools and equipment before use.
- Discuss the importance of maintaining cutting parameters as per the Work Instructions (WI) and their impact on quality and quantity of output product.
- List the steps to be performed for oxy gas cutting process.
- Describe various cutting operations or techniques to produce cuts on different forms of metal.
- Discuss post cutting processes like inspection, cleaning, maintenance etc.
- Explain methods of inspecting the quality of cut workpieces.
- List the commonly occurring defects and their remedies in the cut workpieces.

cutting process.
 Show how to adjust cylinder valves and regulator for operating pressure to achieve required specifications.

and supporting welder during oxy gas

- Employ appropriate ways of measuring and comparing cut piece dimensions with the specified dimensions in the job orders.
- Show how to shut down the cutting equipment and remove the workpiece after completion of cutting activities.
- Demonstrate appropriate inspection method to check the quality of cut workpieces.
- Demonstrate procedure to segregate, tag and store cut pieces as per organisational guidelines.
- Demonstrate organisational procedure of cleaning and storing all the tools, machine







- Discuss effect of oil, grease, scale or dirt on the cutting process.
- Discuss the process of segregating, tagging storing of damaged and workpieces as per organisational guidelines.
- List different methods for disposing off waste material and scrap.
- Discuss emergency for procedures backfires, flashback and other fires.
- Discuss the necessary precautions to avoid any hazard and accident during cutting activities.

and equipment after completion of work.

Show how to dispose waste as per organisational guidelines.

Classroom Aids:

Whiteboard, marker pen, projector

Tools, Equipment and Other Requirements

- Basic tool box, Work bench with vice
- Oxygen cylinder 7m³, acetylene cylinder 6m³, oxygen pressure regulator; acetylene pressure regulator; flashback arrestors; cutting torch; rubber hoses; cutting nozzles; trolley to secure oxygen and acetylene cylinders; chain to secure oxygen and acetylene cylinders; lighter/ flint; spanner set; spindle key; non-return valves; spade guides; radius guide; bevel guide; gas welding/ cutting table 822 cm x 92 cm x 60 cm; surface plate; scriber - 15 cm; dividers 20 cm; calliper outside 15 cm; prick punch; chisel cold flat - 19 mm; centre punch - 9 mm x 127 mm; rule 60 cm; two fold; brass toped to read inches and mm; hammer scaling 0.25 kg with handle; steel rule - 30 cm to read inch and millimetre; Vernier calliper - digital - 0- 150 mm; ball peen hammer with handle - 0.25 kg; cross peen hammer with handle - 0.25 kg; holding tongs - 30 cm; wire brush – 15 cm x 3.7 cm and double ended spanner
- 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







Annexure

Trainer Requirements

Trainer Prerequisites							
Minimum Educational	ducational		Relevant Industry Experience		g Experience	Remarks	
Qualification		Years	Specialization	Years	Specialization		
Diploma	Mechanical	2	Welding	1	Welding	NA	
B.E/B.Tech	Mechanical	1	Welding	1	Welding	NA	

Trainer Certification				
Domain Certification	Platform Certification			
"Assistant Manual Metal Arc Welding/ Shielded	"Trainer, MEP/Q2601 v1.0"			
Metal Arc Welding Welder, CSC/Q0202, version	Minimum accepted score is 80%.			
2.0".				
Minimum accepted score is 80%.				







Assessor Requirements

Assessor Prerequisites						
Minimum Educational	onal Experience		•	Training/Assessment Experience		Remarks
Qualification		Years	Specialization	Years	Specialization	
Diploma	Mechanical	2	Welding	1	Welding	NA
B.E/B.Tech	Mechanical	1	Welding	1	Welding	NA

Assessor Certification				
Domain Certification	Platform Certification			
"Assistant Manual Metal Arc Welding/ Shielded Metal	"Assessor; MEP/Q2701 v1.0"			
Arc Welding Welder, CSC/Q0202, version 2.0".	Minimum accepted score is 80%.			
Minimum accepted score is 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).
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

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