# Automotive Welding Machine Assistant

QP Code: ASC/Q3101

Version: 3.0

NSQF Level: 2

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# Contents

# ASC/Q3101: Automotive Welding Machine Assistant

## Brief Job Description

The individual in this role supports the Automotive Welding Machine Operator during preparation for welding work such as bringing raw material and tools, welding activities such as machine setup, aligning workpiece, holding tools etc. and post-welding activities such as cleaning and maintenance of machine and workarea.

## Personal Attributes

The person should be patient, organised, team-oriented and have the ability to work for long hours in adverse conditions. They should be keen observers and have an eye for detail and quality.

## Applicable National Occupational Standards (NOS)

### Compulsory NOS:

1. ASC/N9803: Organize work and resources (Manufacturing)

2. ASC/N3101: Support the welding operator in routine welding activities

3. DGT/VSQ/N0101: Employability Skills (30 Hours)

## Qualification Pack (QP) Parameters

| | |
|---|---|
| **Sector** | Automotive |
| **Sub-Sector** | Manufacturing |
| **Occupation** | Metal Joining |
| **Country** | India |
| **NSQF Level** | 2 |
| **Credits** | 10 |
| **Aligned to NCO/ISCO/ISIC Code** | NCO-2015/7212.0801 |
| **Minimum Educational Qualification & Experience** | 5th Class |
| **Minimum Level of Education for Training in School** | |
| **Pre-Requisite License or Training** | NA |

| Minimum Job Entry Age | 14 Years |
|---|---|
| Last Reviewed On | NA |
| Next Review Date | NA |
| NSQC Approval Date | |
| Version | 3.0 |

# ASC/N9803: Organize work and resources (Manufacturing)

## Description

This NOS unit is about implementing safety, planning work, adopting sustainable practices for optimising use of resources

## Scope

The scope covers the following :

- Maintain safe and secure working environment
- Health and hygiene
- Perform work as per quality standards
- Effective waste management practices
- Material/energy conservation practices

## Elements and Performance Criteria

### *Maintain safe and secure working environment*

To be competent, the user/individual on the job must be able to:

**PC1.**    identify hazardous activities and the possible causes of risks or accidents in the workplace

**PC2.**    follow safe working practices while dealing with hazards to ensure safety of self and others

**PC3.**    carry out routine check of the machine for identifying potential hazards

**PC4.**    use appropriate protective clothing/equipment for specific tasks and work

**PC5.**    follow safety hazards and preventive techniques during fire drill

**PC6.**    report any identified breaches in health, safety and security policies and procedures to the designated person

### *Health and hygiene*

To be competent, the user/individual on the job must be able to:

**PC7.**    ensure workstation and equipment are regularly clean and sanitized

**PC8.**    clean hands with soap, alcohol-based sanitizer regularly

**PC9.**    avoid contact with ill people and self-isolate in a similar situation

**PC10.**    wear and dispose PPEs regularly and appropriately

**PC11.**    report advanced hygiene and sanitation issues to appropriate authority

**PC12.**    follow stress and anxiety management techniques

### *Perform work as per quality standards*

To be competent, the user/individual on the job must be able to:

**PC13.**    ensure that work is accomplished as per the requirements within the specified timeline

**PC14.**    ensure team goals are given preference over individual goals

### *Effective waste management practices*

To be competent, the user/individual on the job must be able to:

**PC15.**    follow the fundamentals of 5S for waste management

**PC16.**    segregate waste into different categories

**PC17.** follow processes specified for disposal of hazardous waste

**PC18.** identify recyclable, non-recyclable and hazardous waste

**PC19.** dispose non-recyclable, recyclable and reusable waste appropriately at identified location

*Material/energy conservation practices*

To be competent, the user/individual on the job must be able to:

**PC20.** identify ways to optimize usage of material in various tasks/activities/processes

**PC21.** check for spills/leakages in various tasks/activities/processes

**PC22.** plug spills/leakages and escalate to appropriate authority if unable to rectify

**PC23.** check if the equipment/machine is functioning normally before commencing work and rectify wherever required

**PC24.** report malfunctioning (fumes/ sparks/emission/vibration/noise) and lapse in maintenance of equipment

**PC25.** ensure electrical equipment and appliances are properly connected and turned off when not in use

## Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

**KU1.** organisation procedures for health, safety and security, individual role and responsibilities in this context

**KU2.** the organisation's emergency procedures for different emergency situations and the importance of following the same

**KU3.** evacuation procedures for workers and visitors

**KU4.** how and when to report hazards as well as the limits of responsibility for dealing with hazards

**KU5.** potential hazards, risks and threats based on the nature of work

**KU6.** preventative and remedial actions to be taken in case of exposure to toxic material

**KU7.** various types of fire extinguisher

**KU8.** various types of safety signs and their meaning

**KU9.** appropriate first aid treatment relevant to different condition e.g. bleeding, minor burns, eye injuries etc.

**KU10.** relevant standards, procedures and policies related to 5S followed in the company

**KU11.** the various materials used and their storage norms

**KU12.** efficient utilisation of material and water

**KU13.** basics of electricity and prevalent energy efficient devices

**KU14.** common practices of conserving electricity

**KU15.** common sources and ways to minimize pollution

**KU16.** categorisation of waste into dry, wet, recyclable, non-recyclable and items of single-use plastics

**KU17.** usage of different colors of dustbins

**KU18.** waste management techniques

**KU19.** significance of greening

## Generic Skills (GS)

User/individual on the job needs to know how to:

**GS1.** read safety instructions/guidelines

**GS2.** modify work practices to improve them

**GS3.** ask for clarifications from superior about the job requirement

**GS4.** work with supervisors/team members to carry out work related tasks

**GS5.** complete tasks efficiently and accurately within stipulated time

**GS6.** inform/report to concerned person in case of any problem

**GS7.** make timely decisions for efficient utilization of resources

**GS8.** write reports such as accident report, in at least English/regional language

**GS9.** be punctual and utilize time efficiently

## Assessment Criteria

| Assessment Criteria for Outcomes | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|---|---|---|---|---|
| *Maintain safe and secure working environment* | **11** | **5** | **-** | **7** |
| **PC1.** identify hazardous activities and the possible causes of risks or accidents in the workplace | 2 | 1 | - | 2 |
| **PC2.** follow safe working practices while dealing with hazards to ensure safety of self and others | 2 | - | - | 1 |
| **PC3.** carry out routine check of the machine for identifying potential hazards | 2 | 1 | - | 1 |
| **PC4.** use appropriate protective clothing/equipment for specific tasks and work | 2 | 1 | - | 1 |
| **PC5.** follow safety hazards and preventive techniques during fire drill | 2 | 1 | - | 1 |
| **PC6.** report any identified breaches in health, safety and security policies and procedures to the designated person | 1 | 1 | - | 1 |
| *Health and hygiene* | **7** | **5** | **-** | **2** |
| **PC7.** ensure workstation and equipment are regularly clean and sanitized | 2 | 2 | - | 1 |
| **PC8.** clean hands with soap, alcohol-based sanitizer regularly | 1 | 1 | - | 1 |
| **PC9.** avoid contact with ill people and self-isolate in a similar situation | 1 | - | - | - |
| **PC10.** wear and dispose PPEs regularly and appropriately | 1 | - | - | - |
| **PC11.** report advanced hygiene and sanitation issues to appropriate authority | 1 | 1 | - | - |
| **PC12.** follow stress and anxiety management techniques | 1 | 1 | - | - |
| *Perform work as per quality standards* | **5** | **3** | **-** | **2** |
| **PC13.** ensure that work is accomplished as per the requirements within the specified timeline | 2 | 2 | - | 1 |

| Assessment Criteria for Outcomes | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|---|---|---|---|---|
| PC14. ensure team goals are given preference over individual goals | 3 | 1 | - | 1 |
| *Effective waste management practices* | **15** | **10** | **-** | **4** |
| PC15. follow the fundamentals of 5S for waste management | 3 | 2 | - | 1 |
| PC16. segregate waste into different categories | 2 | 1 | - | - |
| PC17. follow processes specified for disposal of hazardous waste | 2 | 2 | - | 1 |
| PC18. identify recyclable, non-recyclable and hazardous waste | 4 | 2 | - | 1 |
| PC19. dispose non-recyclable, recyclable and reusable waste appropriately at identified location | 4 | 3 | - | 1 |
| *Material/energy conservation practices* | **12** | **7** | **-** | **5** |
| PC20. identify ways to optimize usage of material in various tasks/activities/processes | 2 | 1 | - | 1 |
| PC21. check for spills/leakages in various tasks/activities/processes | 2 | 1 | - | 1 |
| PC22. plug spills/leakages and escalate to appropriate authority if unable to rectify | 2 | 1 | - | - |
| PC23. check if the equipment/machine is functioning normally before commencing work and rectify wherever required | 2 | 2 | - | 1 |
| PC24. report malfunctioning (fumes/ sparks/emission/vibration/noise) and lapse in maintenance of equipment | 2 | 1 | - | 1 |
| PC25. ensure electrical equipment and appliances are properly connected and turned off when not in use | 2 | 1 | - | 1 |
| **NOS Total** | **50** | **30** | **-** | **20** |

## National Occupational Standards (NOS) Parameters

| | |
|---|---|
| **NOS Code** | ASC/N9803 |
| **NOS Name** | Organize work and resources (Manufacturing) |
| **Sector** | Automotive |
| **Sub-Sector** | Generic |
| **Occupation** | Generic |
| **NSQF Level** | 3 |
| **Credits** | TBD |
| **Version** | 1.0 |
| **Last Reviewed Date** | 31/03/2022 |
| **Next Review Date** | 24/06/2026 |
| **NSQC Clearance Date** | 24/06/2021 |

# ASC/N3101: Support the welding operator in routine welding activities

## Description

This NOS is about supporting the automotive welding machine operator during preparation for welding work, welding and post-welding activities.

## Scope

The scope covers the following :

- Support the welding operator in pre-welding operations
- Support the welding operator in welding operations
- Support the welding operator in post-welding operations

## Elements and Performance Criteria

*Support the welding operator in pre-welding operations*

To be competent, the user/individual on the job must be able to:

**PC1.**  identify and arrange the tools, measuring instruments, equipment and input materials required for the job as per SOP and welding operator's instructions

**PC2.**  check the input material, tools and equipment for any defects and that they are as per the required quality standards

**PC3.**  support in installing the work pieces and fixture on the apparatus and align them with the electrodes as per the job requirements

**PC4.**  ensure that there is no damage done to the work pieces and machine auxiliaries during loading on the machine apparatus manually or using pulleys, chains and other hoisting mechanisms

*Support the welding operator in welding operations*

To be competent, the user/individual on the job must be able to:

**PC5.**  hold the tools during welding operations in the correct manner as specified by the operator using appropriate PPE

**PC6.**  provide appropriate consumables and accessories to operator during welding process

**PC7.**  support in finishing process like removing extra material, bulges etc. from welded piece

**PC8.**  unload the components from the welding fixture and put it on right trolley/bin

**PC9.**  follow safety practices recommended by organisation during welding process

*Support the welding operator in post-welding operations*

To be competent, the user/individual on the job must be able to:

**PC10.**  support in checking the work pieces as per the work instructions for product quality

**PC11.**  support in segregating, tagging and storing the completed pieces into Ok pieces, defective pieces which can be repaired/reworked and pieces which are beyond repair

**PC12.**  clean and store the tools, equipment and process auxiliaries as per organisational guidelines after completion of work

**PC13.**  remove chips from different machine areas and clean the workarea properly

**PC14.**  dispose scrap or waste material in accordance with the company policies and environmental regulations

## Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

**KU1.** the basic principle of welding process

**KU2.** various types of welding such as SMAW, MIG, MAG, TIG, Resistance Welding (Seam Welding, Projection Welding), Robotic Welding etc.

**KU3.** SOP recommended by the manufacturer for using tools, measuring instruments, accessories etc. during the welding processes

**KU4.** the post welding processes like inspection, cleaning, maintenance etc.

**KU5.** methods of storage and tagging of final product

**KU6.** SOP recommended by the organisation for checking irregularities in the product/work piece

**KU7.** cleaning methods for tools, equipment and workarea cleaning

**KU8.** safety requirements during the welding work

## Generic Skills (GS)

User/individual on the job needs to know how to:

**GS1.** read work instructions and equipment manuals

**GS2.** attentively listen and comprehend the information given by the operator/team members

**GS3.** write work related information in English/regional language

**GS4.** communicate the work requirements to the technician and co-workers

**GS5.** recognise a workplace problem and take suitable action

**GS6.** make timely decisions for efficient utilization of resources

**GS7.** complete the assigned tasks as per schedule

## Assessment Criteria

| Assessment Criteria for Outcomes | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|---|---|---|---|---|
| *Support the welding operator in pre-welding operations* | **6** | **15** | **-** | **7** |
| **PC1.** identify and arrange the tools, measuring instruments, equipment and input materials required for the job as per SOP and welding operator's instructions | 3 | 5 | - | 3 |
| **PC2.** check the input material, tools and equipment for any defects and that they are as per the required quality standards | 1 | 3 | - | 2 |
| **PC3.** support in installing the work pieces and fixture on the apparatus and align them with the electrodes as per the job requirements | 1 | 5 | - | 2 |
| **PC4.** ensure that there is no damage done to the work pieces and machine auxiliaries during loading on the machine apparatus manually or using pulleys, chains and other hoisting mechanisms | 1 | 2 | - | - |
| *Support the welding operator in welding operations* | **5** | **18** | **-** | **4** |
| **PC5.** hold the tools during welding operations in the correct manner as specified by the operator using appropriate PPE | 1 | 4 | - | 2 |
| **PC6.** provide appropriate consumables and accessories to operator during welding process | - | 3 | - | - |
| **PC7.** support in finishing process like removing extra material, bulges etc. from welded piece | 2 | 7 | - | 2 |
| **PC8.** unload the components from the welding fixture and put it on right trolley/bin | 1 | 3 | - | - |
| **PC9.** follow safety practices recommended by organisation during welding process | 1 | 1 | - | - |
| *Support the welding operator in post-welding operations* | **9** | **27** | **-** | **9** |
| **PC10.** support in checking the work pieces as per the work instructions for product quality | 1 | 7 | - | 2 |

| Assessment Criteria for Outcomes | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|---|---|---|---|---|
| **PC11.** support in segregating, tagging and storing the completed pieces into Ok pieces, defective pieces which can be repaired/reworked and pieces which are beyond repair | 1 | 6 | - | 2 |
| **PC12.** clean and store the tools, equipment and process auxiliaries as per organisational guidelines after completion of work | 3 | 5 | - | 2 |
| **PC13.** remove chips from different machine areas and clean the workarea properly | 2 | 4 | - | 1 |
| **PC14.** dispose scrap or waste material in accordance with the company policies and environmental regulations | 2 | 5 | - | 2 |
| **NOS Total** | **20** | **60** | **-** | **20** |

## National Occupational Standards (NOS) Parameters

| | |
|---|---|
| **NOS Code** | ASC/N3101 |
| **NOS Name** | Support the welding operator in routine welding activities |
| **Sector** | Automotive |
| **Sub-Sector** | Manufacturing |
| **Occupation** | Metal Joining |
| **NSQF Level** | 2 |
| **Credits** | TBD |
| **Version** | 2.0 |
| **Last Reviewed Date** | NA |
| **Next Review Date** | 25/03/2026 |
| **NSQC Clearance Date** | 25/03/2021 |

# DGT/VSQ/N0101: Employability Skills (30 Hours)

## Description

This unit is about employability skills, Constitutional values, becoming a professional in the 21st Century, digital, financial, and legal literacy, diversity and Inclusion, English and communication skills, customer service, entrepreneurship, and apprenticeship, getting ready for jobs and career development.

## Scope

The scope covers the following :

- Introduction to Employability Skills
- Constitutional values - Citizenship
- Becoming a Professional in the 21st Century
- Basic English Skills
- Communication Skills
- Diversity & Inclusion
- Financial and Legal Literacy
- Essential Digital Skills
- Entrepreneurship
- Customer Service
- Getting ready for Apprenticeship & Jobs

## Elements and Performance Criteria

### Introduction to Employability Skills

To be competent, the user/individual on the job must be able to:

**PC1.** understand the significance of employability skills in meeting the job requirements

### Constitutional values – Citizenship

To be competent, the user/individual on the job must be able to:

**PC2.** identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices

### Becoming a Professional in the 21st Century

To be competent, the user/individual on the job must be able to:

**PC3.** explain 21st Century Skills such as Self-Awareness, Behavior Skills, Positive attitude, self-motivation, problem-solving, creative thinking, time management, social and cultural awareness, emotional awareness, continuous learning mindset etc.

### Basic English Skills

To be competent, the user/individual on the job must be able to:

**PC4.** speak with others using some basic English phrases or sentences

### Communication Skills

To be competent, the user/individual on the job must be able to:

**PC5.** follow good manners while communicating with others

**PC6.** work with others in a team

### Diversity & Inclusion

To be competent, the user/individual on the job must be able to:

**PC7.**   communicate and behave appropriately with all genders and PwD

**PC8.**   report any issues related to sexual harassment

*Financial and Legal Literacy*

To be competent, the user/individual on the job must be able to:

**PC9.**   use various financial products and services safely and securely

**PC10.**  calculate income, expenses, savings etc.

**PC11.**  approach the concerned authorities for any exploitation as per legal rights and laws

*Essential Digital Skills*

To be competent, the user/individual on the job must be able to:

**PC12.**  operate digital devices and use its features and applications securely and safely

**PC13.**  use internet and social media platforms securely and safely

*Entrepreneurship*

To be competent, the user/individual on the job must be able to:

**PC14.**  identify and assess opportunities for potential business

**PC15.**  identify sources for arranging money and associated financial and legal challenges

*Customer Service*

To be competent, the user/individual on the job must be able to:

**PC16.**  identify different types of customers

**PC17.**  identify customer needs and address them appropriately

**PC18.**  follow appropriate hygiene and grooming standards

*Getting ready for apprenticeship & Jobs*

To be competent, the user/individual on the job must be able to:

**PC19.**  create a basic biodata

**PC20.**  search for suitable jobs and apply

**PC21.**  identify and register apprenticeship opportunities as per requirement

## Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

**KU1.**   need for employability skills

**KU2.**   various constitutional and personal values

**KU3.**   different environmentally sustainable practices and their importance

**KU4.**   Twenty first (21st) century skills and their importance

**KU5.**   how to use basic spoken English language

**KU6.**   Do and dont of effective communication

**KU7.**   inclusivity and its importance

**KU8.**   different types of disabilities and appropriate communication and behaviour towards PwD

**KU9.**   different types of financial products and services

**KU10.**  how to compute income and expenses

**KU11.**  importance of maintaining safety and security in financial transactions

**KU12.** different legal rights and laws

**KU13.** how to operate digital devices and applications safely and securely

**KU14.** ways to identify business opportunities

**KU15.** types of customers and their needs

**KU16.** how to apply for a job and prepare for an interview

**KU17.** apprenticeship scheme and the process of registering on apprenticeship portal

## Generic Skills (GS)

User/individual on the job needs to know how to:

**GS1.** communicate effectively using appropriate language

**GS2.** behave politely and appropriately with all

**GS3.** perform basic calculations

**GS4.** solve problems effectively

**GS5.** be careful and attentive at work

**GS6.** use time effectively

**GS7.** maintain hygiene and sanitisation to avoid infection

## Assessment Criteria

| Assessment Criteria for Outcomes | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|---|---|---|---|---|
| *Introduction to Employability Skills* | 1 | 1 | - | - |
| **PC1.** understand the significance of employability skills in meeting the job requirements | - | - | - | - |
| *Constitutional values – Citizenship* | 1 | 1 | - | - |
| **PC2.** identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices | - | - | - | - |
| *Becoming a Professional in the 21st Century* | 1 | 3 | - | - |
| **PC3.** explain 21st Century Skills such as Self-Awareness, Behavior Skills, Positive attitude, self-motivation, problem-solving, creative thinking, time management, social and cultural awareness, emotional awareness, continuous learning mindset etc. | - | - | - | - |
| *Basic English Skills* | 2 | 3 | - | - |
| **PC4.** speak with others using some basic English phrases or sentences | - | - | - | - |
| *Communication Skills* | 1 | 1 | - | - |
| **PC5.** follow good manners while communicating with others | - | - | - | - |
| **PC6.** work with others in a team | - | - | - | - |
| *Diversity & Inclusion* | 1 | 1 | - | - |
| **PC7.** communicate and behave appropriately with all genders and PwD | - | - | - | - |
| **PC8.** report any issues related to sexual harassment | - | - | - | - |
| *Financial and Legal Literacy* | 3 | 4 | - | - |
| **PC9.** use various financial products and services safely and securely | - | - | - | - |
| **PC10.** calculate income, expenses, savings etc. | - | - | - | - |

| Assessment Criteria for Outcomes | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|---|---|---|---|---|
| **PC11.** approach the concerned authorities for any exploitation as per legal rights and laws | - | - | - | - |
| *Essential Digital Skills* | **4** | **6** | **-** | **-** |
| **PC12.** operate digital devices and use its features and applications securely and safely | - | - | - | - |
| **PC13.** use internet and social media platforms securely and safely | - | - | - | - |
| *Entrepreneurship* | **3** | **5** | **-** | **-** |
| **PC14.** identify and assess opportunities for potential business | - | - | - | - |
| **PC15.** identify sources for arranging money and associated financial and legal challenges | - | - | - | - |
| *Customer Service* | **2** | **2** | **-** | **-** |
| **PC16.** identify different types of customers | - | - | - | - |
| **PC17.** identify customer needs and address them appropriately | - | - | - | - |
| **PC18.** follow appropriate hygiene and grooming standards | - | - | - | - |
| *Getting ready for apprenticeship & Jobs* | **1** | **3** | **-** | **-** |
| **PC19.** create a basic biodata | - | - | - | - |
| **PC20.** search for suitable jobs and apply | - | - | - | - |
| **PC21.** identify and register apprenticeship opportunities as per requirement | - | - | - | - |
| **NOS Total** | **20** | **30** | **-** | **-** |

## National Occupational Standards (NOS) Parameters

| | |
|---|---|
| **NOS Code** | DGT/VSQ/N0101 |
| **NOS Name** | Employability Skills (30 Hours) |
| **Sector** | Cross Sectoral |
| **Sub-Sector** | Professional Skills |
| **Occupation** | Employability |
| **NSQF Level** | 2 |
| **Credits** | 1 |
| **Version** | 1.0 |
| **Last Reviewed Date** | 31/08/2023 |
| **Next Review Date** | 31/08/2026 |
| **NSQC Clearance Date** | 31/08/2023 |

## Assessment Guidelines and Assessment Weightage

**Assessment Guidelines**

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.

2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.

3. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training centre (as per assessment criteria below).

4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/ training centre based on these criteria.

5. In case of successfully passing only certain number of NOSs, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack.

6. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack

**Minimum Aggregate Passing % at QP Level : 60**

(**Please note**: Every Trainee should score a minimum aggregate passing percentage as specified above, to successfully clear the Qualification Pack assessment.)

## Assessment Weightage

Compulsory NOS

| National Occupational Standards | Theory Marks | Practical Marks | Project Marks | Viva Marks | Total Marks | Weightage |
|---|---|---|---|---|---|---|
| ASC/N9803.Organize work and resources (Manufacturing) | 50 | 30 | - | 20 | 100 | 25 |
| ASC/N3101.Support the welding operator in routine welding activities | 30 | 50 | - | 20 | 100 | 70 |
| DGT/VSQ/N0101.Employability Skills (30 Hours) | 20 | 30 | - | - | 50 | 5 |
| **Total** | **100** | **110** | **-** | **40** | **250** | **100** |

## Acronyms

| | |
|---|---|
| **NOS** | National Occupational Standard(s) |
| **NSQF** | National Skills Qualifications Framework |
| **QP** | Qualifications Pack |
| **TVET** | Technical and Vocational Education and Training |
| | |
| **PPE** | Personal Protective Equipment |
| **PwD** | Person with Disability |
| **SOP** | Standard Operating Practices |
| **SMAW** | Shielded Metal Arc Welding |
| **MIG** | Metal Inert Gas |
| **MAG** | Metal Active Gas |
| **TIG** | Tungsten Inert Gas |

## Glossary

| | |
|---|---|
| **Sector** | Sector is a conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests. |
| **Sub-sector** | Sub-sector is derived from a further breakdown based on the characteristics and interests of its components. |
| **Occupation** | Occupation is a set of job roles, which perform similar/ related set of functions in an industry. |
| **Job role** | Job role defines a unique set of functions that together form a unique employment opportunity in an organisation. |
| **Occupational Standards (OS)** | OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the Knowledge and Understanding (KU) they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts. |
| **Performance Criteria (PC)** | Performance Criteria (PC) are statements that together specify the standard of performance required when carrying out a task. |
| **National Occupational Standards (NOS)** | NOS are occupational standards which apply uniquely in the Indian context. |
| **Qualifications Pack (QP)** | QP comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications pack code. |
| **Unit Code** | Unit code is a unique identifier for an Occupational Standard, which is denoted by an 'N' |
| **Unit Title** | Unit title gives a clear overall statement about what the incumbent should be able to do. |
| **Description** | Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for. |
| **Scope** | Scope is a set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on quality of performance required. |
| **Knowledge and Understanding (KU)** | Knowledge and Understanding (KU) are statements which together specify the technical, generic, professional and organisational specific knowledge that an individual needs in order to perform to the required standard. |

| | |
|---|---|
| **Organisational Context** | Organisational context includes the way the organisation is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility. |
| **Technical Knowledge** | Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities. |
| **Core Skills/ Generic Skills (GS)** | Core skills or Generic Skills (GS) are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles. |
| **Electives** | Electives are NOS/set of NOS that are identified by the sector as contributive to specialization in a job role. There may be multiple electives within a QP for each specialized job role. Trainees must select at least one elective for the successful completion of a QP with Electives. |
| **Options** | Options are NOS/set of NOS that are identified by the sector as additional skills. There may be multiple options within a QP. It is not mandatory to select any of the options to complete a QP with Options. |