



## Qualification Pack



# Fabricator

QP Code: CON/Q1206

Version: 5.0

NSQF Level: 4

Construction Skill Development Council of India || CPB 103 & 104 (1st Floor), Block 4B, DLF Corporate Park, Phase III, MG Road  
Gurgaon-122002 || email:standards@csdcindia.org



## Qualification Pack

### Contents

CON/Q1206: Fabricator .....	3
<i>Brief Job Description</i> .....	3
Applicable National Occupational Standards (NOS) .....	3
<i>Compulsory NOS</i> .....	3
<i>Qualification Pack (QP) Parameters</i> .....	3
CON/N1210: Inspect the fabrication materials and conduct their surface cleaning .....	5
CON/N1211: Conduct joint preparation, connection activities and repair work in fabricated assemblies .....	11
CON/N0717: Erect structural steel assemblies at construction sites .....	17
CON/N9001: Work according to personal health, safety and environment protocols at construction site .....	23
CON/N8001: Work effectively in a team to deliver desired results at the workplace .....	29
CON/N8002: Plan and organize work to meet expected outcomes .....	33
DGT/VSQ/N0101: Employability Skills (30 Hours) .....	38
Assessment Guidelines and Weightage .....	43
<i>Assessment Guidelines</i> .....	43
<i>Assessment Weightage</i> .....	44
Acronyms .....	46
Glossary .....	49



## Qualification Pack

### CON/Q1206: Fabricator

#### Brief Job Description

The fabricator is responsible for conducting various activities such as surface cleaning, edge/ joint preparation, and connection of the components/ steel sections, etc., as well as carrying out the erection of these assemblies.

#### Personal Attributes

The fabricator is expected to be physically fit to work across various locations with varied environmental conditions. The individual should preferably not be suffering from any respiratory disorder, vision defects, and skin allergies. The person should be organized, diligent, methodical, safety-conscious, and a prompt decision-maker. In addition to being a team player, the individual should have good communication skills.

#### Applicable National Occupational Standards (NOS)

##### Compulsory NOS:

- [1. CON/N1210: Inspect the fabrication materials and conduct their surface cleaning](#)
- [2. CON/N1211: Conduct joint preparation, connection activities and repair work in fabricated assemblies](#)
- [3. CON/N0717: Erect structural steel assemblies at construction sites](#)
- [4. CON/N9001: Work according to personal health, safety and environment protocols at construction site](#)
- [5. CON/N8001: Work effectively in a team to deliver desired results at the workplace](#)
- [6. CON/N8002: Plan and organize work to meet expected outcomes](#)
- [7. DGT/VSQ/N0101: Employability Skills \(30 Hours\)](#)

#### Qualification Pack (QP) Parameters

<b>Sector</b>	Construction
<b>Sub-Sector</b>	Real Estate and Infrastructure construction
<b>Occupation</b>	Fabrication
<b>Country</b>	India



## Qualification Pack

<b>NSQF Level</b>	4
<b>Credits</b>	15
<b>Aligned to NCO/ISCO/ISIC Code</b>	NCO-2015/7213.0200
<b>Minimum Educational Qualification &amp; Experience</b>	12th grade Pass OR Completed 2nd year of the 3-year diploma after 10 (in Civil / Mechanical Engineering) OR 11th grade pass with 1 Year of experience Relevant Experience OR 10th grade pass with 2 Years of experience Relevant Experience OR 8th grade pass with 4 Years of experience Relevant Experience OR Previous relevant Qualification of NSQF Level (Level 3- Assistant Construction Fitter) with 1.5 years of experience Relevant Experience OR Previous relevant Qualification of NSQF Level (Level 3 - Assistant Construction Fitter) with 3 Years of experience Relevant Experience
<b>Minimum Level of Education for Training in School</b>	10th Class
<b>Pre-Requisite License or Training</b>	NIL
<b>Minimum Job Entry Age</b>	18 Years
<b>Last Reviewed On</b>	NA
<b>Next Review Date</b>	30/04/2028
<b>NSQF Approval Date</b>	08/05/2025
<b>Version</b>	5.0
<b>Reference code on NQR</b>	QG-04-CO-03956-2025-V2-CSDCI
<b>NQR Version</b>	5.0



## Qualification Pack

# CON/N1210: Inspect the fabrication materials and conduct their surface cleaning

## Description

This unit describes the skills and knowledge required to inspect the fabrication materials and conduct their surface cleaning.

## Scope

The scope covers the following :

- Inspect the materials required for fabrication work
- Conduct surface cleaning of the sections for fabricating steel structures

## Elements and Performance Criteria

### *Inspect the materials required for fabrication work*

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

- PC1.** read and interpret blueprints/ working drawings/shop drawings/ specification details related to the fabrication activities
- PC2.** identify different components/ sections like columns, I-beams, girders, trusses, channels, angles, plates, hollow section and other mild steel (MS) components/ accessories required in the steel fabrication work with respect to the specifications/ drawings
- PC3.** locate the appropriate sections based on sizes, dimensions, and design in the warehouse/ storing yard for further processing which may involve grinding, welding, cutting, bending, drilling, punching, burning or melting
- PC4.** ensure that there are correct identity marks/heat number on the structural sections as per the organizational norms
- PC5.** confirm that quality inspection has been conducted by the quality department for the required materials
- PC6.** ensure the fabrication material has no physical damage like distortion, bending, cracks etc.
- PC7.** ensure that the materials are loaded, shifted and unloaded to the fabrication yard/ workshop safely, following standard practices

### *Conduct surface cleaning of the sections for fabricating steel structures*

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

- PC8.** inspect the surface of the materials/ sections to determine the types of impurities on it
- PC9.** obtain approval for employing different methods of surface cleaning from the concerned authority
- PC10.** estimate the quantities of the materials required for the surface cleaning purpose
- PC11.** initiate indent procedures for the required cleaning materials as per the organizational norms
- PC12.** ensure appropriate surface cleaning procedures like heating, chemical cleaning, scrubbing, water jet, abrasion etc. are adopted as per the requirements/ instructions
- PC13.** confirm the compliance of prepared clean surface with technical details or instructions



## Qualification Pack

### Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** standard procedures for fabrication work
- KU2.** safety rules and regulations for handling and storing relevant tools, equipment, and materials required for fabrication works
- KU3.** importance of personal protection including the use of related safety gears and equipment in accordance with organizational norms
- KU4.** precautions and measures required in the lifting and movement of heavy components and materials in the fabrication work
- KU5.** service request procedures for tools, materials, and equipment as per organizational norms
- KU6.** how to read and interpret technical details like drawings, specifications, charts, checklists, etc.
- KU7.** concept of heat number, its significance, and use
- KU8.** methods of storing and stacking of sections in stock yard
- KU9.** how to identify distortions and methods of measuring distortion
- KU10.** organizational procedures relating to inspection of incoming materials
- KU11.** different types of superficial damages occurring on the sections
- KU12.** standards practices for the safe loading, shifting, and unloading of materials in the fabrication yard/ workshop
- KU13.** application of different load lifting apparatus/equipment like slings, hooks, belts, chains, cranes, etc. used in fabrication work
- KU14.** different types of impurities attached to the surface of steel sections
- KU15.** different methods of cleaning the surface of the materials, their applications and effects (chemical and physical) on metal
- KU16.** different types of heating equipment, their accessories, range of operation and area of application
- KU17.** different chemicals that are used for cleaning, reactions involved in chemical cleaning, its procedures, and area of application
- KU18.** different instruments used for measuring and marking the dimensions of the components, their area of application, and method of use
- KU19.** safety parameters while working with the equipments employed for abrasion activities

### Generic Skills (GS)

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

- GS1.** write in one or more language, preferably in the local language of the site and basic English
- GS2.** read drawing/sketches, work, and safety-related instructions/signboards, etc. in one or more languages, preferably in the local language of the site
- GS3.** speak in one or more languages, preferably in one of the local languages of the site
- GS4.** communicate orally and effectively with team members
- GS5.** analyze the safety aspect of the workplace



## Qualification Pack

- GS6.** plan work to achieve productivity as per the directions of superiors
- GS7.** ensure work is done within time and as per desired quality
- GS8.** resolve any conflict within the teammates
- GS9.** identify violation of any safety norms which may lead to accidents



## Qualification Pack

### Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Inspect the materials required for fabrication work</i>	<b>6</b>	<b>14</b>	-	-
<b>PC1.</b> read and interpret blueprints/ working drawings/shop drawings/ specification details related to the fabrication activities	-	-	-	-
<b>PC2.</b> identify different components/ sections like columns, I-beams, girders, trusses, channels, angles, plates, hollow section and other mild steel (MS) components/ accessories required in the steel fabrication work with respect to the specifications/ drawings	-	-	-	-
<b>PC3.</b> locate the appropriate sections based on sizes, dimensions, and design in the warehouse/ storing yard for further processing which may involve grinding, welding, cutting, bending, drilling, punching, burning or melting	-	-	-	-
<b>PC4.</b> ensure that there are correct identity marks/heat number on the structural sections as per the organizational norms	-	-	-	-
<b>PC5.</b> confirm that quality inspection has been conducted by the quality department for the required materials	-	-	-	-
<b>PC6.</b> ensure the fabrication material has no physical damage like distortion, bending, cracks etc.	-	-	-	-
<b>PC7.</b> ensure that the materials are loaded, shifted and unloaded to the fabrication yard/ workshop safely, following standard practices	-	-	-	-
<i>Conduct surface cleaning of the sections for fabricating steel structures</i>	<b>24</b>	<b>56</b>	-	-
<b>PC8.</b> inspect the surface of the materials/ sections to determine the types of impurities on it	-	-	-	-
<b>PC9.</b> obtain approval for employing different methods of surface cleaning from the concerned authority	-	-	-	-



## Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC10.</b> estimate the quantities of the materials required for the surface cleaning purpose	-	-	-	-
<b>PC11.</b> initiate indent procedures for the required cleaning materials as per the organizational norms	-	-	-	-
<b>PC12.</b> ensure appropriate surface cleaning procedures like heating, chemical cleaning, scrubbing, water jet, abrasion etc. are adopted as per the requirements/ instructions	-	-	-	-
<b>PC13.</b> confirm the compliance of prepared clean surface with technical details or instructions	-	-	-	-
<b>NOS Total</b>	<b>30</b>	<b>70</b>	-	-



## Qualification Pack

### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	CON/N1210
<b>NOS Name</b>	Inspect the fabrication materials and conduct their surface cleaning
<b>Sector</b>	Construction
<b>Sub-Sector</b>	Real Estate and Infrastructure construction
<b>Occupation</b>	Fabrication
<b>NSQF Level</b>	4
<b>Credits</b>	2
<b>Version</b>	5.0
<b>Last Reviewed Date</b>	08/05/2025
<b>Next Review Date</b>	30/04/2028
<b>NSQC Clearance Date</b>	08/05/2025



## Qualification Pack

# CON/N1211: Conduct joint preparation, connection activities and repair work in fabricated assemblies

## Description

This unit describes the skills and knowledge required to conduct fabrication activities like joint preparation, connection, and repair of fabricated assemblies.

## Scope

The scope covers the following :

- Conduct edge/ joint preparation and connection activities using welding and bolting methods.
- Conduct repair of fabricated components/ assemblies.

## Elements and Performance Criteria

### *Conduct edge/ joint preparation and connection activities using welding and bolting methods*

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

- PC1.** identify the components/sections of the assemblies as per drawings or instructions
- PC2.** estimate the consumables, tools, equipment and manpower required for the edge/ joint preparation
- PC3.** inspect instruments, consumables, tools and equipment visually for their working conditions
- PC4.** customize suitable jigs and fixtures according to workpiece and clamp it to the bed of the platform for the smooth execution of work
- PC5.** perform calculations for computation of dimensions from drawings if required
- PC6.** measure and mark bending/cutting lines, drilling points etc. on the work piece/ sections within tolerance limits as per provided technical details/standard procedures
- PC7.** conduct necessary operations such as bending, cutting, drilling etc. in order to ensure precise orientation, alignments and fittings of the work piece/ section
- PC8.** conduct edge-preparation for the work piece/ section using Punch and Nibble method, Peeling and Shearing Method or Milling and Routing Method as per requirement
- PC9.** ensure that allowance for thickness, shrinkage and root gaps are maintained for the joints as per the standard practice and specifications
- PC10.** conduct connections of joints by weld/ bolt connection methods as per the specifications and drawings
- PC11.** ensure that joints/ connections of the different components of assemblies comply with the specifications and drawings
- PC12.** ensure joints are free of irregularities or impurities before further operations
- PC13.** arrange for inspection of the fabricated assemblies by superiors

### *Conduct repair of fabricated components/ assemblies*

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

- PC14.** inspect the component/ assemblies for distortions/ errors in dimensions or other defects
- PC15.** identify the most suitable method for correcting the defects



## Qualification Pack

- PC16.** estimate roughly the quantity and type of manpower, materials, consumables, tools, equipment and time required for completing the repair work
- PC17.** obtain approval from superiors for carrying out repairs with estimated resources
- PC18.** conduct the operations like grinding, welding, heating, jacking etc. as per the repair work requirement
- PC19.** recheck the repaired work prior to submitting the same for quality inspections
- PC20.** ensure that the tools and equipment are correctly used, maintained and stored

## Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** standard procedures for fabrication work
- KU2.** safety rules and regulations for handling and storing relevant tools, equipment, and materials required for fabrication works
- KU3.** importance of personal protection including the use of related safety gears & equipment in accordance with organizational norms
- KU4.** service request procedures for tools, materials, and equipment as per organizational norms
- KU5.** specifications related to fabrication work from shop drawing/ cutting plans
- KU6.** different types of sections, plates, materials, etc. used in fabrication
- KU7.** importance of positions, alignments, fittings for joints and connections
- KU8.** basic maintenance of different tools, tackles, and equipment
- KU9.** the sequence of processes involved in joints and connections formation
- KU10.** concept of weld and bolt method of connection
- KU11.** welding terminologies like arc, flux, slag, etc. and their parameters
- KU12.** effects of welding fumes
- KU13.** correct handling and storage of gas cylinders for welding purposes
- KU14.** components of welding gun, and their functions
- KU15.** different types of shielding gases and their uses in different conditions
- KU16.** different positions and patterns of welding and their application
- KU17.** different defects arising in the fabricated section, their causes and effects
- KU18.** the basic concept of operations like grinding, heating, jacking, etc. used in repairing work
- KU19.** the sequence of different activities involved in repairing defects of fabricated components/assemblies

## Generic Skills (GS)

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

- GS1.** write in one or more language, preferably in the local language of the site and basic English
- GS2.** read drawing/sketches, work, and safety-related instructions/signboards, etc. in one or more languages, preferably in the local language of the site
- GS3.** speak one or more language, preferably the local language at the site



## Qualification Pack

- GS4.** communicate orally and efficiently with team members
- GS5.** analyze the safety aspect of the workplace
- GS6.** plan work & organize required resource in coordination with team members and superior
- GS7.** perform work as per agreed time schedule and quality
- GS8.** resolve any conflict within the team
- GS9.** identify violation of any safety norms which may lead to accidents



## Qualification Pack

### Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Conduct edge/ joint preparation and connection activities using welding and bolting methods</i>	<b>18</b>	<b>42</b>	-	-
<b>PC1.</b> identify the components/sections of the assemblies as per drawings or instructions	-	-	-	-
<b>PC2.</b> estimate the consumables, tools, equipment and manpower required for the edge/ joint preparation	-	-	-	-
<b>PC3.</b> inspect instruments, consumables, tools and equipment visually for their working conditions	-	-	-	-
<b>PC4.</b> customize suitable jigs and fixtures according to workpiece and clamp it to the bed of the platform for the smooth execution of work	-	-	-	-
<b>PC5.</b> perform calculations for computation of dimensions from drawings if required	-	-	-	-
<b>PC6.</b> measure and mark bending/cutting lines, drilling points etc. on the work piece/ sections within tolerance limits as per provided technical details/standard procedures	-	-	-	-
<b>PC7.</b> conduct necessary operations such as bending, cutting, drilling etc. in order to ensure precise orientation, alignments and fittings of the work piece/ section	-	-	-	-
<b>PC8.</b> conduct edge-preparation for the work piece/ section using Punch and Nibble method, Peeling and Shearing Method or Milling and Routing Method as per requirement	-	-	-	-
<b>PC9.</b> ensure that allowance for thickness, shrinkage and root gaps are maintained for the joints as per the standard practice and specifications	-	-	-	-
<b>PC10.</b> conduct connections of joints by weld/ bolt connection methods as per the specifications and drawings	-	-	-	-



## Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC11.</b> ensure that joints/ connections of the different components of assemblies comply with the specifications and drawings	-	-	-	-
<b>PC12.</b> ensure joints are free of irregularities or impurities before further operations	-	-	-	-
<b>PC13.</b> arrange for inspection of the fabricated assemblies by superiors	-	-	-	-
<i>Conduct repair of fabricated components/ assemblies</i>	<b>12</b>	<b>28</b>	-	-
<b>PC14.</b> inspect the component/ assemblies for distortions/ errors in dimensions or other defects	-	-	-	-
<b>PC15.</b> identify the most suitable method for correcting the defects	-	-	-	-
<b>PC16.</b> estimate roughly the quantity and type of manpower, materials, consumables, tools, equipment and time required for completing the repair work	-	-	-	-
<b>PC17.</b> obtain approval from superiors for carrying out repairs with estimated resources	-	-	-	-
<b>PC18.</b> conduct the operations like grinding, welding, heating, jacking etc. as per the repair work requirement	-	-	-	-
<b>PC19.</b> recheck the repaired work prior to submitting the same for quality inspections	-	-	-	-
<b>PC20.</b> ensure that the tools and equipment are correctly used, maintained and stored	-	-	-	-
<b>NOS Total</b>	<b>30</b>	<b>70</b>	-	-



## Qualification Pack

### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	CON/N1211
<b>NOS Name</b>	Conduct joint preparation, connection activities and repair work in fabricated assemblies
<b>Sector</b>	Construction
<b>Sub-Sector</b>	Real Estate and Infrastructure construction
<b>Occupation</b>	Fabrication
<b>NSQF Level</b>	4
<b>Credits</b>	4
<b>Version</b>	5.0
<b>Last Reviewed Date</b>	08/05/2025
<b>Next Review Date</b>	30/04/2028
<b>NSQC Clearance Date</b>	08/05/2025



## Qualification Pack

# CON/N0717: Erect structural steel assemblies at construction sites

## Description

This unit describes the skills and knowledge required to erect structural steel assemblies at construction sites

## Scope

The scope covers the following :

- Prepare for the erection of structural steel assemblies
- Erect structural steel assemblies as per drawing

## Elements and Performance Criteria

### *Prepare for the erection of structural steel assemblies*

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

- PC1.** ensure that proper access to the erection site is available to both erection team and load lifting equipment/ machine
- PC2.** ensure that survey marks and reference points are available for the erection work
- PC3.** carry out necessary measurement and marking to ascertain the exact location of erection
- PC4.** ensure the availability of base plates or other level correction provisions are provided at the base of erection as per requirement
- PC5.** check the availability of provisions for bolting, welding, post-tensioning connections as per the drawing
- PC6.** ensure designed bearing area in the platform or support is available for efficient erection of the components
- PC7.** check for hazardous situations at erection site, such as the presence of live electrical cables, absence of proper barricading, excessive wind speed and report it to the concerned authority promptly as per requirement
- PC8.** check availability of all materials and support equipment (identified by the seniors and required to proceed with the work) and report any shortages

### *Erect structural steel assemblies as per drawing*

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

- PC9.** install shoring, bracing and guying materials as directed by the foreman/ supervisor or specified by erection drawings and details considering local conditions
- PC10.** pull, push and hold suspended structural steel assemblies/ components approximately to their exact location by hand or suitable means during lowering of load
- PC11.** communicate efficiently to the signalman or operator for precise movements required to place the object/ assemblies at accurate location
- PC12.** ensure units are guided to their appropriate locations
- PC13.** place the steel assemblies/ components to its accurate location efficiently and make required adjustments as per erection requirement



## Qualification Pack

- PC14.** ensure proper orientation and alignment of the erected steel assembly/ component by carrying out required measurement and checks using appropriate measuring tools and instruments
- PC15.** check installation of temporary connections using appropriate tools prior to final positioning of precast units/ steel assemblies for their stability
- PC16.** bolt connections to the specified tolerance and torque using appropriate torque wrench wherever required
- PC17.** check bolt tightness in case of units having slotted connections
- PC18.** install special steel washers to ensure that the specified tension has been developed in the bolt
- PC19.** check location of shims, bearing pads for their proper positioning
- PC20.** install expansion bolts using prescribed installation procedures and quality control specifications

## Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** standard procedure for rigging works
- KU2.** safety rules and regulations for handling and storing relevant tools, equipment, and materials for rigging works
- KU3.** importance of personal protection including the use of related safety gears & equipment in accordance with organizational norms
- KU4.** precautions and measures required in the lifting and movement of heavy components and materials
- KU5.** service request procedures for tools, materials and equipment as per organizational norms
- KU6.** statutory compliance requirements related to working at height
- KU7.** basic sketches / schematic working drawing relevant to rigging works
- KU8.** basic principles of measurement, geometry and arithmetic calculation
- KU9.** how to interpret lifting plans and schedules
- KU10.** applicable tolerance to respective erection job
- KU11.** sequence of erection works as per proposed work method statement
- KU12.** checks to be carried out to ensure the readiness of base for erections
- KU13.** how to check alignment of erected elements using measuring tools and instruments
- KU14.** the techniques of positioning of elements at their locations within tolerance limits

## Generic Skills (GS)

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

- GS1.** write in one or more language, preferably in the local language of the site and basic English
- GS2.** read drawing/sketches, work, and safety-related instructions/signboards, etc. in one or more languages, preferably in the local language of the site
- GS3.** speak one or more language, preferably the local language of the site



## Qualification Pack

- GS4.** communicate orally and efficiently with team members
- GS5.** analyze the safety aspect of the workplace
- GS6.** plan work & organize required resource in coordination with team members and superior
- GS7.** perform work as per agreed time schedule and quality
- GS8.** resolve any conflict within the team
- GS9.** evaluate the complexity of the task and seek assistance and support wherever required
- GS10.** identify violation of any safety norms which may lead to accidents



## Qualification Pack

### Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Prepare for the erection of structural steel assemblies</i>	<b>6</b>	<b>14</b>	-	-
<b>PC1.</b> ensure that proper access to the erection site is available to both erection team and load lifting equipment/ machine	-	-	-	-
<b>PC2.</b> ensure that survey marks and reference points are available for the erection work	-	-	-	-
<b>PC3.</b> carry out necessary measurement and marking to ascertain the exact location of erection	-	-	-	-
<b>PC4.</b> ensure the availability of base plates or other level correction provisions are provided at the base of erection as per requirement	-	-	-	-
<b>PC5.</b> check the availability of provisions for bolting, welding, post-tensioning connections as per the drawing	-	-	-	-
<b>PC6.</b> ensure designed bearing area in the platform or support is available for efficient erection of the components	-	-	-	-
<b>PC7.</b> check for hazardous situations at erection site, such as the presence of live electrical cables, absence of proper barricading, excessive wind speed and report it to the concerned authority promptly as per requirement	-	-	-	-
<b>PC8.</b> check availability of all materials and support equipment (identified by the seniors and required to proceed with the work) and report any shortages	-	-	-	-
<i>Erect structural steel assemblies as per drawing</i>	<b>24</b>	<b>56</b>	-	-
<b>PC9.</b> install shoring, bracing and guying materials as directed by the foreman/ supervisor or specified by erection drawings and details considering local conditions	-	-	-	-
<b>PC10.</b> pull, push and hold suspended structural steel assemblies/ components approximately to their exact location by hand or suitable means during lowering of load	-	-	-	-



## Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC11.</b> communicate efficiently to the signalman or operator for precise movements required to place the object/ assemblies at accurate location	-	-	-	-
<b>PC12.</b> ensure units are guided to their appropriate locations	-	-	-	-
<b>PC13.</b> place the steel assemblies/ components to its accurate location efficiently and make required adjustments as per erection requirement	-	-	-	-
<b>PC14.</b> ensure proper orientation and alignment of the erected steel assembly/ component by carrying out required measurement and checks using appropriate measuring tools and instruments	-	-	-	-
<b>PC15.</b> check installation of temporary connections using appropriate tools prior to final positioning of precast units/ steel assemblies for their stability	-	-	-	-
<b>PC16.</b> bolt connections to the specified tolerance and torque using appropriate torque wrench wherever required	-	-	-	-
<b>PC17.</b> check bolt tightness in case of units having slotted connections	-	-	-	-
<b>PC18.</b> install special steel washers to ensure that the specified tension has been developed in the bolt	-	-	-	-
<b>PC19.</b> check location of shims, bearing pads for their proper positioning	-	-	-	-
<b>PC20.</b> install expansion bolts using prescribed installation procedures and quality control specifications	-	-	-	-
<b>NOS Total</b>	<b>30</b>	<b>70</b>	-	-



## Qualification Pack

### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	CON/N0717
<b>NOS Name</b>	Erect structural steel assemblies at construction sites
<b>Sector</b>	Construction
<b>Sub-Sector</b>	Real Estate and Infrastructure construction
<b>Occupation</b>	Rigging, Fabrication
<b>NSQF Level</b>	4
<b>Credits</b>	5
<b>Version</b>	5.0
<b>Last Reviewed Date</b>	08/05/2025
<b>Next Review Date</b>	30/04/2028
<b>NSQC Clearance Date</b>	08/05/2025



## Qualification Pack

# CON/N9001: Work according to personal health, safety and environment protocols at construction site

## Description

This NOS covers the skill and knowledge required for an individual to work according to personal health, safety and environmental protocols at construction site

## Scope

The scope covers the following :

- Follow safety norms as defined by organization
- Adopt healthy & safe work practices
- Implement good housekeeping and environment protection process and activities
- Follow infection control guidelines as per applicability

## Elements and Performance Criteria

### *Follow safety norms as defined by the organization*

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

- PC1.** identify and report any hazards, risks or breaches in site safety to the appropriate authority
- PC2.** follow emergency and evacuation procedures in case of accidents, fires, natural calamities
- PC3.** follow recommended safe practices in handling construction materials, including chemical and hazardous material whenever applicable
- PC4.** follow all the protocols and safety techniques conveyed during safety awareness programs like Tool Box Talks, safety demonstrations and mock drills conducted at the site
- PC5.** select and operate different types of fire extinguishers corresponding to various types of fires as per EHS guideline
- PC6.** identify near miss, unsafe condition and unsafe act

### *Adopt healthy & safe work practices*

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

- PC7.** use appropriate Personal Protective Equipment (PPE) as per work requirements for : Head Protection, Ear protection, Fall Protection ,Foot Protection, Face and Eye Protection, Hand and Body Protection , and Respiratory Protection (if required)
- PC8.** handle all required tools, tackles, materials and equipment safely
- PC9.** follow safe disposal of waste, harmful and hazardous materials as per EHS guidelines
- PC10.** check and install all safety equipment as per standard guidelines
- PC11.** follow safety protocols and practices as laid down by site EHS department
- PC12.** obtain "height pass" clearance for working at heights

### *Implement good housekeeping practices*

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

- PC13.** collect, segregate and deposit construction waste into appropriate containers based on their toxicity or hazardous nature



## Qualification Pack

**PC14.** apply ergonomic principles wherever required

*Follow infection control guidelines as per applicability*

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

**PC15.** follow recommended personal hygiene, workplace hygiene and sanitization practices

**PC16.** clean and disinfect all materials, tools and supplies before and after use

**PC17.** report immediately to concerned authorities regarding signs and symptoms of illness of self and others

## Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** reporting procedures in cases of breaches or hazards for site safety, accidents, and emergency situations as per guidelines
- KU2.** types of safety hazards at construction sites
- KU3.** basic ergonomic principles as per applicability
- KU4.** the procedure for responding to accidents and other emergencies at site
- KU5.** use of appropriate personal protective equipment based on various working conditions
- KU6.** importance of handling tools, equipment, and materials as per applicable norms
- KU7.** effect of construction material on health and environments as per applicability
- KU8.** various environmental protection methods as per applicability
- KU9.** storage of waste including non-combustible scrap material and debris, combustible scrap material and debris, general construction waste and trash (non-toxic, non-hazardous), any other hazardous wastes and any other flammable wastes at the appropriate location
- KU10.** how to keep the workplace neat and tidy so as to be safe
- KU11.** how to use hazardous material in a safe and appropriate manner as per applicability
- KU12.** types of fire
- KU13.** procedure of operating different types of fire extinguishers
- KU14.** safety relevant to tools, tackles, and equipment as per applicability
- KU15.** housekeeping activities relevant to task
- KU16.** ways of transmission of infection
- KU17.** ways to manage infectious risks at the workplace
- KU18.** different methods of cleaning, disinfection, sterilization, and sanitization
- KU19.** symptoms of infection like fever, cough, redness, swelling, and inflammation

## Generic Skills (GS)

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

- GS1.** write in at least one language, preferably in the local language of the site
- GS2.** fill safety formats for near miss, unsafe conditions and safety suggestions
- GS3.** read in one or more language, preferably in the local language of the site



## Qualification Pack

- GS4.** speak in one or more language, preferably in one of the local language of the site
- GS5.** listen to instructions/communication shared by site EHS and superiors regarding site safety, and conducting the toolbox talk
- GS6.** identify potential safety risks and report to the appropriate authority
- GS7.** assess and analyze areas which may affect health, safety and environment protocol on the site



## Qualification Pack

### Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Follow safety norms as defined by the organization</i>	<b>5</b>	<b>15</b>	-	-
<b>PC1.</b> identify and report any hazards, risks or breaches in site safety to the appropriate authority	-	-	-	-
<b>PC2.</b> follow emergency and evacuation procedures in case of accidents, fires, natural calamities	-	-	-	-
<b>PC3.</b> follow recommended safe practices in handling construction materials, including chemical and hazardous material whenever applicable	-	-	-	-
<b>PC4.</b> follow all the protocols and safety techniques conveyed during safety awareness programs like Tool Box Talks, safety demonstrations and mock drills conducted at the site	-	-	-	-
<b>PC5.</b> select and operate different types of fire extinguishers corresponding to various types of fires as per EHS guideline	-	-	-	-
<b>PC6.</b> identify near miss, unsafe condition and unsafe act	-	-	-	-
<i>Adopt healthy &amp; safe work practices</i>	<b>15</b>	<b>35</b>	-	-
<b>PC7.</b> use appropriate Personal Protective Equipment (PPE) as per work requirements for : Head Protection, Ear protection, Fall Protection ,Foot Protection, Face and Eye Protection, Hand and Body Protection , and Respiratory Protection (if required)	-	-	-	-
<b>PC8.</b> handle all required tools, tackles, materials and equipment safely	-	-	-	-
<b>PC9.</b> follow safe disposal of waste, harmful and hazardous materials as per EHS guidelines	-	-	-	-
<b>PC10.</b> check and install all safety equipment as per standard guidelines	-	-	-	-



## Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC11.</b> follow safety protocols and practices as laid down by site EHS department	-	-	-	-
<b>PC12.</b> obtain "height pass" clearance for working at heights	-	-	-	-
<i>Implement good housekeeping practices</i>	<b>5</b>	<b>15</b>	-	-
<b>PC13.</b> collect, segregate and deposit construction waste into appropriate containers based on their toxicity or hazardous nature	-	-	-	-
<b>PC14.</b> apply ergonomic principles wherever required	-	-	-	-
<i>Follow infection control guidelines as per applicability</i>	<b>5</b>	<b>5</b>	-	-
<b>PC15.</b> follow recommended personal hygiene, workplace hygiene and sanitization practices	-	-	-	-
<b>PC16.</b> clean and disinfect all materials, tools and supplies before and after use	-	-	-	-
<b>PC17.</b> report immediately to concerned authorities regarding signs and symptoms of illness of self and others	-	-	-	-
<b>NOS Total</b>	<b>30</b>	<b>70</b>	-	-



## Qualification Pack

### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	CON/N9001
<b>NOS Name</b>	Work according to personal health, safety and environment protocols at construction site
<b>Sector</b>	Construction
<b>Sub-Sector</b>	Real Estate and Infrastructure construction
<b>Occupation</b>	Generic Safety
<b>NSQF Level</b>	4
<b>Credits</b>	1
<b>Version</b>	3.0
<b>Last Reviewed Date</b>	08/05/2025
<b>Next Review Date</b>	30/04/2028
<b>NSQC Clearance Date</b>	08/05/2025



## Qualification Pack

# CON/N8001: Work effectively in a team to deliver desired results at the workplace

## Description

This unit describes the skills and knowledge required to work effectively within a team to achieve the desired results

## Scope

The scope covers the following :

- Interact and communicate in an effective manner
- Support co-workers to execute the project requirements
- Practice inclusion

## Elements and Performance Criteria

### *Interact and communicate in an effective manner*

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

- PC1.** pass on work related information/ requirement clearly to the team members
- PC2.** inform co-workers and superiors about any kind of deviations from work
- PC3.** report any unresolved problem to the supervisor immediately
- PC4.** obtain instructions from superiors and respond on the same
- PC5.** communicate to team members/subordinates for appropriate work technique and method
- PC6.** seek clarification and advice as per the requirement

### *Support co-workers to execute the project requirements*

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

- PC7.** hand over the required material, tools, tackles, equipment and work fronts timely to interfacing teams
- PC8.** work together with co-workers in a synchronized manner

### *Practice inclusion*

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

- PC9.** maintain cultural inclusivity at work place
- PC10.** maintain disability friendly work practices
- PC11.** follow gender neutral practices at workplace
- PC12.** address discriminatory and offensive behaviour in a professional manner as per organizational policy

## Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** own roles and responsibilities



## Qualification Pack

- KU2.** importance of effective communication
- KU3.** the consequence of poor teamwork on project outcomes, timelines, safety at the construction site, etc.
- KU4.** different modes of communication used at workplace
- KU5.** importance of creating healthy and cooperative work environment among the gangs of workers
- KU6.** different activities within the work area where interaction with other workers is required
- KU7.** applicable techniques of work, properties of materials used, tools and tackles used, safety standards that co-workers might need as per the requirement
- KU8.** importance of proper and effective communication and the expected adverse effects in case of failure relating to quality, timeliness, safety, risks at the construction project site
- KU9.** importance and need of supporting co-workers facing problems for the smooth functioning of work
- KU10.** the fundamental concept of gender equality
- KU11.** how to recognise and be sensitive to issues of disability, culture and gender
- KU12.** legislation, policies, and procedures relating to gender sensitivity and cultural diversity including their impact on the area of operation

## Generic Skills (GS)

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

- GS1.** write in at least one language, preferably in the local language of the site
- GS2.** read the communication regarding work completion, materials used, tools and tackles used, the resource required, etc,
- GS3.** speak in one or more languages, preferably in one of the local language of the site
- GS4.** listen and follow instructions / communication shared by superiors/ co-workers regarding team requirements or interfaces during work processes
- GS5.** communicate orally and effectively with co-workers considering their educational and social background
- GS6.** decide on what information is to be shared with co-workers within the team or to the interfacing gang of workers
- GS7.** plan work and organize the required resources in coordination with team members
- GS8.** complete all assigned task in coordination with team members
- GS9.** take initiative in resolving issues among co-workers or report the same to superiors
- GS10.** ensure best ways of coordination among team members
- GS11.** evaluate the complexity of task and determine if any guidance is required from superiors



## Qualification Pack

### Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Interact and communicate in an effective manner</i>	<b>20</b>	<b>40</b>	-	-
<b>PC1.</b> pass on work related information/ requirement clearly to the team members	-	-	-	-
<b>PC2.</b> inform co-workers and superiors about any kind of deviations from work	-	-	-	-
<b>PC3.</b> report any unresolved problem to the supervisor immediately	-	-	-	-
<b>PC4.</b> obtain instructions from superiors and respond on the same	-	-	-	-
<b>PC5.</b> communicate to team members/subordinates for appropriate work technique and method	-	-	-	-
<b>PC6.</b> seek clarification and advice as per the requirement	-	-	-	-
<i>Support co-workers to execute the project requirements</i>	<b>5</b>	<b>15</b>	-	-
<b>PC7.</b> hand over the required material, tools, tackles, equipment and work fronts timely to interfacing teams	-	-	-	-
<b>PC8.</b> work together with co-workers in a synchronized manner	-	-	-	-
<i>Practice inclusion</i>	<b>5</b>	<b>15</b>	-	-
<b>PC9.</b> maintain cultural inclusivity at work place	-	-	-	-
<b>PC10.</b> maintain disability friendly work practices	-	-	-	-
<b>PC11.</b> follow gender neutral practices at workplace	-	-	-	-
<b>PC12.</b> address discriminatory and offensive behaviour in a professional manner as per organizational policy	-	-	-	-
<b>NOS Total</b>	<b>30</b>	<b>70</b>	-	-



## Qualification Pack

### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	CON/N8001
<b>NOS Name</b>	Work effectively in a team to deliver desired results at the workplace
<b>Sector</b>	Construction
<b>Sub-Sector</b>	Real Estate and Infrastructure construction
<b>Occupation</b>	Generic 2
<b>NSQF Level</b>	4
<b>Credits</b>	1
<b>Version</b>	3.0
<b>Last Reviewed Date</b>	08/05/2025
<b>Next Review Date</b>	30/04/2028
<b>NSQF Clearance Date</b>	08/05/2025



## Qualification Pack

### CON/N8002: Plan and organize work to meet expected outcomes

#### Description

This unit describes the knowledge and the skills required for an individual to plan and organize own work in order to meet expected outcome

#### Scope

The scope covers the following :

- Plan and prepare for work
- Organise required resources as per work plan
- Complete work as per the plan

#### Elements and Performance Criteria

##### *Plan and prepare for work*

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

- PC1.** identify the targets and timelines set by superiors
- PC2.** determine the work requirements corresponding to task(drawings/schedules/instructions/methodology), safety, tools and equipment prior to commencement of task
- PC3.** plan the work by analyzing the required outcomes, work procedures, allotted time, resource availability and known priorities
- PC4.** prepare the work areas in coordination with team members
- PC5.** plan for waste collection and disposal prior to and after completion of work

##### *Organise required resources as per work plan*

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

- PC6.** arrange the required manpower prior to commencement of work
- PC7.** organize the required materials, tools and tackles required for the task

##### *Complete work as per the plan*

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

- PC8.** engage allocated manpower in an appropriate manner
- PC9.** employ correct tools, tackles and equipment for the desired work
- PC10.** provide guidance to the subordinates to obtain desired outcome
- PC11.** use resources in an optimum manner to avoid any unnecessary wastage
- PC12.** use tools, tackles and equipment carefully to avoid damage
- PC13.** ensure the work processes adopted are in line with the specified standards and instructions
- PC14.** complete the work with the allocated resources within specified time
- PC15.** clean and organise the workplace after completion of task

#### Knowledge and Understanding (KU)



## Qualification Pack

The individual on the job needs to know and understand:

- KU1.** importance of proper housekeeping including safe waste disposal
- KU2.** policies, procedures and work targets set by superiors
- KU3.** how to identify work activities that need to be planned and organized
- KU4.** how to determine the task requirements
- KU5.** how to determine the quality requirements related to the task
- KU6.** how to undertake all aspect of planning and organizing the task, including interpretation of task, reading drawing/schedules, arranging resources, reporting problems etc.
- KU7.** how to implement the planned activities
- KU8.** how to use available resources in a judicious and appropriate manner to minimize wastages or damage

## Generic Skills (GS)

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

- GS1.** write in one or more language, preferably the local language at the site
- GS2.** read communication from co-workers, superiors and notices from other departments as per requirement of the level
- GS3.** speak in one or more language, preferably one of the local language at the site
- GS4.** follow communication shared by co-workers regarding standard work processes, resources available, timelines, etc.
- GS5.** communicate effectively with co-workers and subordinates
- GS6.** decide on what sequence is to be adopted for execution of work
- GS7.** plan and organize the materials, tools, tackles and equipment required to execute the work
- GS8.** complete all assigned task with proper planning and organizing
- GS9.** analyze areas of work which could result in a delay of work, wastage of material or damage to tools and tackles
- GS10.** evaluate potential solutions to minimize avoidable delays and wastages at the construction site



## Qualification Pack

### Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Plan and prepare for work</i>	<b>10</b>	<b>20</b>	-	-
<b>PC1.</b> identify the targets and timelines set by superiors	-	-	-	-
<b>PC2.</b> determine the work requirements corresponding to task(drawings/schedules/instructions/methodology), safety, tools and equipment prior to commencement of task	-	-	-	-
<b>PC3.</b> plan the work by analyzing the required outcomes, work procedures, allotted time, resource availability and known priorities	-	-	-	-
<b>PC4.</b> prepare the work areas in coordination with team members	-	-	-	-
<b>PC5.</b> plan for waste collection and disposal prior to and after completion of work	-	-	-	-
<i>Organise required resources as per work plan</i>	<b>5</b>	<b>15</b>	-	-
<b>PC6.</b> arrange the required manpower prior to commencement of work	-	-	-	-
<b>PC7.</b> organize the required materials, tools and tackles required for the task	-	-	-	-
<i>Complete work as per the plan</i>	<b>15</b>	<b>35</b>	-	-
<b>PC8.</b> engage allocated manpower in an appropriate manner	-	-	-	-
<b>PC9.</b> employ correct tools, tackles and equipment for the desired work	-	-	-	-
<b>PC10.</b> provide guidance to the subordinates to obtain desired outcome	-	-	-	-
<b>PC11.</b> use resources in an optimum manner to avoid any unnecessary wastage	-	-	-	-
<b>PC12.</b> use tools, tackles and equipment carefully to avoid damage	-	-	-	-
<b>PC13.</b> ensure the work processes adopted are in line with the specified standards and instructions	-	-	-	-



## Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC14. complete the work with the allocated resources within specified time	-	-	-	-
PC15. clean and organise the workplace after completion of task	-	-	-	-
<b>NOS Total</b>	<b>30</b>	<b>70</b>	-	-



## Qualification Pack

### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	CON/N8002
<b>NOS Name</b>	Plan and organize work to meet expected outcomes
<b>Sector</b>	Construction
<b>Sub-Sector</b>	Real Estate and Infrastructure construction
<b>Occupation</b>	Generic 2
<b>NSQF Level</b>	4
<b>Credits</b>	1
<b>Version</b>	4.0
<b>Last Reviewed Date</b>	08/05/2025
<b>Next Review Date</b>	30/04/2028
<b>NSQC Clearance Date</b>	08/05/2025



## Qualification Pack

### 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



## Qualification Pack

### *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



## Qualification Pack

- 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



## Qualification Pack

### Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Introduction to Employability Skills</i>	<b>1</b>	<b>1</b>	-	-
<b>PC1.</b> understand the significance of employability skills in meeting the job requirements	-	-	-	-
<i>Constitutional values - Citizenship</i>	<b>1</b>	<b>1</b>	-	-
<b>PC2.</b> identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices	-	-	-	-
<i>Becoming a Professional in the 21st Century</i>	<b>1</b>	<b>3</b>	-	-
<b>PC3.</b> 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.	-	-	-	-
<i>Basic English Skills</i>	<b>2</b>	<b>3</b>	-	-
<b>PC4.</b> speak with others using some basic English phrases or sentences	-	-	-	-
<i>Communication Skills</i>	<b>1</b>	<b>1</b>	-	-
<b>PC5.</b> follow good manners while communicating with others	-	-	-	-
<b>PC6.</b> work with others in a team	-	-	-	-
<i>Diversity &amp; Inclusion</i>	<b>1</b>	<b>1</b>	-	-
<b>PC7.</b> communicate and behave appropriately with all genders and PwD	-	-	-	-
<b>PC8.</b> report any issues related to sexual harassment	-	-	-	-
<i>Financial and Legal Literacy</i>	<b>3</b>	<b>4</b>	-	-
<b>PC9.</b> use various financial products and services safely and securely	-	-	-	-



## Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC10.</b> calculate income, expenses, savings etc.	-	-	-	-
<b>PC11.</b> approach the concerned authorities for any exploitation as per legal rights and laws	-	-	-	-
<i>Essential Digital Skills</i>	<b>4</b>	<b>6</b>	-	-
<b>PC12.</b> operate digital devices and use its features and applications securely and safely	-	-	-	-
<b>PC13.</b> use internet and social media platforms securely and safely	-	-	-	-
<i>Entrepreneurship</i>	<b>3</b>	<b>5</b>	-	-
<b>PC14.</b> identify and assess opportunities for potential business	-	-	-	-
<b>PC15.</b> identify sources for arranging money and associated financial and legal challenges	-	-	-	-
<i>Customer Service</i>	<b>2</b>	<b>2</b>	-	-
<b>PC16.</b> identify different types of customers	-	-	-	-
<b>PC17.</b> identify customer needs and address them appropriately	-	-	-	-
<b>PC18.</b> follow appropriate hygiene and grooming standards	-	-	-	-
<i>Getting ready for apprenticeship &amp; Jobs</i>	<b>1</b>	<b>3</b>	-	-
<b>PC19.</b> create a basic biodata	-	-	-	-
<b>PC20.</b> search for suitable jobs and apply	-	-	-	-
<b>PC21.</b> identify and register apprenticeship opportunities as per requirement	-	-	-	-
<b>NOS Total</b>	<b>20</b>	<b>30</b>	-	-



## Qualification Pack

### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	DGT/VSQ/N0101
<b>NOS Name</b>	Employability Skills (30 Hours)
<b>Sector</b>	Cross Sectoral
<b>Sub-Sector</b>	Professional Skills
<b>Occupation</b>	Employability
<b>NSQF Level</b>	2
<b>Credits</b>	1
<b>Version</b>	1.0
<b>Last Reviewed Date</b>	12/03/2026
<b>Next Review Date</b>	12/03/2029
<b>NSQC Clearance Date</b>	12/03/2026

## Assessment Guidelines and Assessment Weightage

### Assessment Guidelines

1. Criteria for assessment for each Qualification Pack will be created by CSDCI. Each Performance Criteria (PC)/ Elements will be assigned marks proportional to its importance in NOS.
2. CSDCI will also lay down proportion of marks for Theory and Skills Practical for each PC/ Elements. The assessment for the knowledge part will be based on knowledge bank of questions created by Assessment Bodies subject to approval by CSDCI.
3. Individual assessment agencies will create unique question papers for knowledge/theory part for assessment of candidates as per assessment criteria given below:
  - a) Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on assessment criteria.
  - b) The passing percentage for the QP will be 70%. To pass the Qualification Pack.
  - c) The Assessor shall check the final outcome of the practices while evaluating the steps performed to achieve the final outcome
  - d) The trainee shall be provided with a chance to repeat the test to correct his procedures in case of



## Qualification Pack

improper performance, with a deduction of marks for each iteration.

e) After the certain number of iteration as decided by SSC the trainee is marked as fail, scoring zero marks for the procedure for the practical activity.

f) In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack within the specified time frame set by CSDCI.

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

### Minimum Aggregate Passing % at QP Level : 70

**(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
CON/N1210. Inspect the fabrication materials and conduct their surface cleaning	30	70	-	-	100	20
CON/N1211. Conduct joint preparation, connection activities and repair work in fabricated assemblies	30	70	-	-	100	25
CON/N0717. Erect structural steel assemblies at construction sites	30	70	-	-	100	30
CON/N9001. Work according to personal health, safety and environment protocols at construction site	30	70	-	-	100	10



## Qualification Pack

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
CON/N8001.Work effectively in a team to deliver desired results at the workplace	30	70	-	-	100	5
CON/N8002.Plan and organize work to meet expected outcomes	30	70	-	-	100	5
DGT/VSQ/N0101.Employability Skills (30 Hours)	20	30	-	-	50	5
<b>Total</b>	<b>200</b>	<b>450</b>	<b>-</b>	<b>-</b>	<b>650</b>	<b>100</b>



## Qualification Pack

### Acronyms

<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>MSDE</b>	Ministry of Skill Development and Entrepreneurship
<b>NCVET</b>	National Council for Vocational Education and Training
<b>NSDC</b>	National Skill Development Corporation
<b>CSDCI</b>	Construction Skill Development Council of India
<b>SIDH</b>	Skill India Digital Hub
<b>AB</b>	Awarding Body
<b>SSC</b>	Sector Skill Council
<b>PMKVY</b>	Pradhan Mantri Kaushal Vikas Yojana
<b>DDU-GKY</b>	Deen Dayal Upadhyaya Grameen Kaushalya Yojana Deen Dayal Upadhyaya Grameen Kaushalya Yojana
<b>SANKALP</b>	Skill Acquisition and Knowledge Awareness for Livelihood Promotion
<b>STRIVE</b>	Skills Strengthening for Industrial Value Enhancement
<b>JSS</b>	Jan Shikshan Sansthan
<b>STT</b>	Short Term Training
<b>RPL</b>	Recognition of Prior Learning
<b>NAPS</b>	National Apprenticeship Promotion Scheme
<b>AA</b>	Assessment Agency
<b>TP</b>	Training Provider / Training Partner
<b>TC</b>	Training Centre
<b>ITI</b>	Industrial Training Institute
<b>NSQC</b>	National Skill Qualification Committee



## Qualification Pack

<b>NSQF</b>	National Skills Qualification Framework
<b>Q-File</b>	Qualification File
<b>QP</b>	Qualification Pack
<b>MC</b>	Model Curriculum
<b>NOS</b>	National Occupational Standards
<b>PC</b>	Performance Criteria
<b>KU</b>	Knowledge and Understanding
<b>GS</b>	Generic Skills
<b>MCQ</b>	Multiple Choice Question
<b>EHS</b>	Environment Health and Safety
<b>PPE</b>	Personal Protective Equipment
<b>QA/QC</b>	Quality Assurance / Quality Control
<b>IS Code</b>	Indian Standards Code
<b>PMI</b>	Positive Material Identification
<b>MCB</b>	Miniature Circuit Breaker
<b>WPS</b>	Welding Procedure Specification
<b>PQR</b>	Procedure Qualification Record
<b>MIG</b>	Metal Inert Gas Welding
<b>TIG</b>	Tungsten Inert Gas Welding
<b>SMAW</b>	Shielded Metal Arc Welding (Manual Arc Welding)
<b>GMAW</b>	Gas Metal Arc Welding (MIG Welding)
<b>GTAW</b>	Gas Tungsten Arc Welding
<b>FAW</b>	Flux Cored Arc Welding
<b>SAW</b>	Submerged Arc Welding
<b>PAW</b>	Plasma Arc Welding
<b>LBW</b>	Laser Beam Welding



## Qualification Pack

<b>EBW</b>	Electron Beam Welding
<b>ESW</b>	Electro Slag Welding
<b>UT</b>	Ultrasonic Testing (NDT Method)
<b>RT</b>	Radiographic Testing (X-ray Inspection)
<b>PT</b>	Penetrant Testing (Dye Penetrant Test)
<b>MPT</b>	Magnetic Particle Testing
<b>VT</b>	Visual Testing
<b>FAB</b>	Fabrication
<b>HSS</b>	Hollow Structural Section
<b>CJP</b>	Complete Joint Penetration
<b>PJP</b>	Partial Joint Penetration
<b>HFV</b>	High-Frequency Welding
<b>ISMC</b>	Indian Standard Medium Channel
<b>ISMB</b>	Indian Standard Medium Beam
<b>ISWB</b>	Indian Standard Wide Flange Beam



## Qualification Pack

### Glossary

<b>Sector</b>	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.
<b>Sub-sector</b>	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
<b>Occupation</b>	Occupation is a set of job roles, which perform similar/ related set of functions in an industry.
<b>Job role</b>	Job role defines a unique set of functions that together form a unique employment opportunity in an organisation.
<b>Occupational Standards (OS)</b>	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.
<b>Performance Criteria (PC)</b>	Performance Criteria (PC) are statements that together specify the standard of performance required when carrying out a task.
<b>National Occupational Standards (NOS)</b>	NOS are occupational standards which apply uniquely in the Indian context.
<b>Qualifications Pack (QP)</b>	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.
<b>Unit Code</b>	Unit code is a unique identifier for an Occupational Standard, which is denoted by an 'N'
<b>Unit Title</b>	Unit title gives a clear overall statement about what the incumbent should be able to do.
<b>Description</b>	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.
<b>Scope</b>	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.
<b>Knowledge and Understanding (KU)</b>	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.



## Qualification Pack

<b>Organisational Context</b>	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.
<b>Technical Knowledge</b>	Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
<b>Core Skills/ Generic Skills (GS)</b>	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.
<b>Electives</b>	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.
<b>Options</b>	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.
<b>National Occupational Standard</b>	NOS defines the measurable performance outcomes required from an individual engaged in a particular task. They list down what an individual performing that task should know and also do.
<b>Qualification</b>	A formal outcome of an assessment and validation process which is obtained when a competent body determines that an individual has achieved learning outcomes to given standards
<b>Qualification File</b>	A Qualification File is a template designed to capture necessary information of a Qualification from the perspective of NSQF compliance. The Qualification File will be normally submitted by the awarding body for the qualification.
<b>Sector</b>	A grouping of professional activities on the basis of their main economic function, product, service or technology.
<b>Long Term Training</b>	Long-term skilling means any vocational training program undertaken for a year and above. <a href="https://ncvet.gov.in/sites/default/files/NCVET.pdf">https://ncvet.gov.in/sites/default/files/NCVET.pdf</a>