





## **Assistant Technician - Prestress**

QP Code: CON/Q0801

Version: 3.0

NSQF Level: 3

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## **CON/Q0801: Assistant Technician - Prestress**

#### **Brief Job Description**

An Assistant Technician - Prestress is responsible for assisting in carrying out pre-stressing work in RCC structures by handling materials and tools, helping in cutting and laying of strands/ sheathing ducts, preparing grout mix and carrying out pressure grouting of ducts.

#### **Personal Attributes**

The individual should be physically fit with the ability to work in varying locations and environmental conditions. The person should be able to work within a team and as per the given instructions. The individual should possess basic verbal and written communication skills.

#### **Applicable National Occupational Standards (NOS)**

#### **Compulsory NOS:**

- 1. CON/N0801: Handle and store pre-stressing tools and materials
- 2. CON/N0802: Assist in uncoiling, cutting and placing ducts and tendons
- 3. CON/N0803: Prepare grout mix and carry out pressure grouting
- 4. CON/N8001: Work effectively in a team to deliver desired results at the workplace
- 5. <u>CON/N9001</u>: Work according to personal health, safety and environment protocols at construction site
- 6. DGT/VSQ/N0101: Employability Skills (30 Hours)

#### **Qualification Pack (QP) Parameters**

Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Prestressing
Country	India
NSQF Level	3
Credits	11





Aligned to NCO/ISCO/ISIC Code	NCO-2015/3123.9900
Minimum Educational Qualification & Experience	OR 8th grade pass with 2 years of NTC (/ NAC after 8th) OR 9th grade pass with 1 Year of experience in the relevant field OR 8th grade pass with 2 Years of experience in the relevant field OR 5th grade pass with 5 Years of experience in the relevant field OR Frevious relevant Qualification of NSQF Level (2) with 3 Years of experience in the relevant field OR Previous relevant Qualification of NSQF Level (2.5 with 1.5 Years of experience in the relevant field)
Minimum Level of Education for Training in School	10th Class
Pre-Requisite License or Training	NIL
Minimum Job Entry Age	18 Years
Last Reviewed On	NA
Next Review Date	29/02/2024
Deactivation Date	29/02/2024
NSQC Approval Date	31/08/2023
Version	3.0
Reference code on NQR	QG-03-CO-00797-2023-V2-CSDCI
NQR Version	1





## CON/N0801: Handle and store pre-stressing tools and materials

#### **Description**

This unit is the about handling, storing and stacking tools and construction materials at the work site for pre-stressing work.

#### Scope

The scope covers the following:

- Select tools and materials for pre-stressing work
- Shift, stack and store materials at the site

#### **Elements and Performance Criteria**

#### Select tools and materials for pre-stressing work

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

- **PC1.** select the common hand and power tools used for pipe and tendon laying operations, such as hammer, spanner, drilling machine, circular power saw, etc., as per the work requirement
- **PC2.** select the appropriate tendons for pre-stressing as per the supervisor's instruction
- **PC3.** select the appropriate anchorage system, such as flat anchorage, blind end anchorage, etc.
- **PC4.** select spacers and supports for placing and maintaining desired level of ducts
- **PC5.** select identify blocks, inserts as applicable to the pre-stressing works
- **PC6.** select common materials/components for pre-stressing work, such as cement, additives, steel tendons, tendon ducts, etc
- **PC7.** ensure the selection of appropriate types of tendon ducts (sheathing) based on the material (i.e metallic or High Density Polyethylene) and size, as per the supervisor's instructions

#### Shift, stack and store materials at the site

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

- **PC8.** assist in shifting and stacking tendon coils at the appropriate location at the work following the applicable storage standards
- **PC9.** assist in shifting and stacking ducts, sleeves, anchorage components, inserts and construction materials such as cement, sand, additives etc., at the specified locations as per the supervisor's instructions
- **PC10.** store tensioning jacks at appropriate location as per instruction
- **PC11.** apply protective covers on the stored materials, set up appropriate signage and barricading as per the supervisor's instructions

#### **Knowledge and Understanding (KU)**

The individual on the job needs to know and understand:

- **KU1.** the standard practices of pre-stressing work
- **KU2.** the safety rules and regulations for handling, shifting, collecting and stacking for prestressing materials, tools and tackles





- **KU3.** the components of anchorage systems, such as guides, bearing plates, grips and circlips, etc
- **KU4.** the importance of personal protection including the use of the relevant safety gears and equipment the handling and maintenance of facade installation materials, tools and equipment
- **KU5.** the concept of pre-stressing and the sequential steps involved pre-stressing
- **KU6.** the materials used for pre-stressing works such as tendon, ducts, anchorage systems, supports, etc
- **KU7.** the properties of steel tendons
- **KU8.** the hand and power tools required for making tendon/ duct laying arrangements and their uses
- **KU9.** the importance of using anchorage systems and the components used in them
- **KU10.** the common types of anchorage systems, e.g. flat anchorage, blind end anchorage and their respective uses as per work requirement
- **KU11.** the use of tendon ducts as per material and dimension
- **KU12.** the standard procedure and dos and don'ts applicable to handling of tendons and prestressing materials/ components
- **KU13.** the practice of storing and stacking steel tendons, pre-stressing materials/ components and tensioning jacks materials/ components
- **KU14.** the protective arrangements/ covers to be provided to the stored materials against heat, rain or possible adverse weather conditions

#### **Generic Skills (GS)**

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

- **GS1.** maintain the appropriate data and records
- **GS2.** read the appropriate reports and literature concerning the field of work
- **GS3.** communicate professionally with all the stakeholders
- **GS4.** listen attentively to understand the information/ instructions being shared and take appropriate action
- **GS5.** coordinate with the co-workers to achieve the work objectives
- **GS6.** plan and execute tasks based on their priority
- **GS7.** identify possible disruptions to work and take appropriate mitigation measures
- **GS8.** take prompt action to deal with workplace emergencies and accidents
- **GS9.** evaluate all possible solutions to work-related problems and select the best one
- **GS10.** follow the recommended practices for the timely completion of work and achievement of organizational objectives





#### **Assessment Criteria**

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Select tools and materials for pre-stressing work	15	30	-	6
<b>PC1.</b> select the common hand and power tools used for pipe and tendon laying operations, such as hammer, spanner, drilling machine, circular power saw, etc., as per the work requirement	-	-	-	-
<b>PC2.</b> select the appropriate tendons for prestressing as per the supervisor's instruction	-	-	-	-
<b>PC3.</b> select the appropriate anchorage system, such as flat anchorage, blind end anchorage, etc.	-	-	-	-
<b>PC4.</b> select spacers and supports for placing and maintaining desired level of ducts	-	-	-	-
<b>PC5.</b> select identify blocks, inserts as applicable to the pre-stressing works	-	-	-	-
<b>PC6.</b> select common materials/components for prestressing work, such as cement, additives, steel tendons, tendon ducts, etc	-	-	-	-
<b>PC7.</b> ensure the selection of appropriate types of tendon ducts (sheathing) based on the material (i.e metallic or High Density Polyethylene) and size, as per the supervisor's instructions	-	-	-	-
Shift, stack and store materials at the site	15	30	-	4
<b>PC8.</b> assist in shifting and stacking tendon coils at the appropriate location at the work following the applicable storage standards	-	-	-	-
<b>PC9.</b> assist in shifting and stacking ducts, sleeves, anchorage components, inserts and construction materials such as cement, sand, additives etc., at the specified locations as per the supervisor's instructions	-	-	-	-
<b>PC10.</b> store tensioning jacks at appropriate location as per instruction	-	-	-	-
<b>PC11.</b> apply protective covers on the stored materials, set up appropriate signage and barricading as per the supervisor's instructions	-	-	-	-





Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks	
NOS Total	30	60	-	10	





## **National Occupational Standards (NOS) Parameters**

NOS Code	CON/N0801
NOS Name	Handle and store pre-stressing tools and materials
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Prestressing
NSQF Level	3
Credits	2
Version	3.0
Last Reviewed Date	31/08/2023
Next Review Date	29/02/2024
NSQC Clearance Date	31/08/2023





## CON/N0802: Assist in uncoiling, cutting and placing ducts and tendons

#### **Description**

This unit is about assisting in uncoiling, cutting and placing ducts and tendons.

#### Scope

The scope covers the following:

- Assist in uncoiling and cutting tendons
- Assist in placing ducts and tendons

#### **Elements and Performance Criteria**

#### Assist in uncoiling and cutting tendons

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

- **PC1.** prepare the bed for laying uncoiled tendons/ strands as per the supervisor's instructions
- PC2. remove covers from tendon coils appropriately before de-coiling
- **PC3.** check tendons and ducts for rust, moisture or deviation in shape
- **PC4.** untie or cut wires, protective systems provided with the tendon coils
- **PC5.** un-coil the tendon as per the given instructions and place them on the suitably prepared base, ensuring the base is free from soil and dust
- **PC6.** place roller cradles to the suitable base for dragging tendons
- **PC7.** drag and position tendons on the specified base as per instruction

#### Assist in placing ducts and tendons

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

- **PC8.** maintain the ducts/tendons firmly in position during cutting
- **PC9.** create bundle by putting tendons of required number together
- **PC10.** apply suitable tying to the bundle of tendons for firm binding
- PC11. assist in placing of ducts through the marked supports as per the instructions
- PC12. assist in pushing tendons/ bundles through the ducts
- **PC13.** apply anti moisture wraps to the exposed portion of the tendons before and after placing as per the given instructions
- **PC14.** set up grouting nozzle and vents to the duct as per the given instruction
- PC15. close the nozzle or open terminals of the duct by using suitable material

#### **Knowledge and Understanding (KU)**

The individual on the job needs to know and understand:

- **KU1.** the standard practices regarding uncoiling and placing tendons on the base
- **KU2.** the visual checks to be carried out on tendons after the removal of cover
- **KU3.** the unit weight of tendons





- **KU4.** the nature of base required for placing tendons
- KU5. the visual checks to be carried out to ensure the usability of tendons/ ducts for pre-stressing
- **KU6.** how to form bundle by tying multiple tendons together
- **KU7.** the necessity of providing protective wrapping to the tendons
- KU8. how to hold tendons/ ducts safely during cutting works

#### **Generic Skills (GS)**

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

- **GS1.** maintain the appropriate data and records
- **GS2.** read the appropriate reports and literature concerning the field of work
- **GS3.** communicate professionally with all the stakeholders
- **GS4.** listen attentively to understand the information/ instructions being shared and take appropriate action
- **GS5.** coordinate with the co-workers to achieve the work objectives
- **GS6.** plan and execute tasks based on their priority
- **GS7.** identify possible disruptions to work and take appropriate mitigation measures
- GS8. take prompt action to deal with workplace emergencies and accidents
- **GS9.** evaluate all possible solutions to work-related problems and select the best one
- **GS10.** follow the recommended practices for the timely completion of work and achievement of organizational objectives





#### **Assessment Criteria**

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Assist in uncoiling and cutting tendons	13	25	-	6
<b>PC1.</b> prepare the bed for laying uncoiled tendons/ strands as per the supervisor's instructions	-	-	-	-
<b>PC2.</b> remove covers from tendon coils appropriately before de-coiling	-	-	-	-
<b>PC3.</b> check tendons and ducts for rust, moisture or deviation in shape	-	-	-	-
<b>PC4.</b> until or cut wires, protective systems provided with the tendon coils	-	-	-	-
<b>PC5.</b> un-coil the tendon as per the given instructions and place them on the suitably prepared base, ensuring the base is free from soil and dust	-	-	-	_
<b>PC6.</b> place roller cradles to the suitable base for dragging tendons	-	-	-	_
<b>PC7.</b> drag and position tendons on the specified base as per instruction	-	-	-	_
Assist in placing ducts and tendons	17	35	-	4
PC8. maintain the ducts/tendons firmly in position during cutting	-	-	-	_
<b>PC9.</b> create bundle by putting tendons of required number together	-	-	-	-
<b>PC10.</b> apply suitable tying to the bundle of tendons for firm binding	-	-	-	-
<b>PC11.</b> assist in placing of ducts through the marked supports as per the instructions	-	-	-	-
PC12. assist in pushing tendons/ bundles through the ducts	_	-	-	-
<b>PC13.</b> apply anti moisture wraps to the exposed portion of the tendons before and after placing as per the given instructions	-	-	-	-





Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC14.</b> set up grouting nozzle and vents to the duct as per the given instruction	-	-	-	-
<b>PC15.</b> close the nozzle or open terminals of the duct by using suitable material	-	-	-	-
NOS Total	30	60	-	10





## **National Occupational Standards (NOS) Parameters**

NOS Code	CON/N0802
NOS Name	Assist in uncoiling, cutting and placing ducts and tendons
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Prestressing
NSQF Level	3
Credits	3
Version	3.0
Last Reviewed Date	31/08/2023
Next Review Date	29/02/2024
NSQC Clearance Date	31/08/2023





### CON/N0803: Prepare grout mix and carry out pressure grouting

#### **Description**

This unit is about preparing grout mix and carrying out pressure grouting

#### Scope

The scope covers the following:

Prepare grout mix and grout the pre-stressing ducts

#### **Elements and Performance Criteria**

#### Prepare grout mix and grout the pre-stressing ducts

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

- **PC1.** collect suitable materials, such as cement, additives and water for grouting in the mixing pan in the recommended proportion
- **PC2.** prepare the grouting mix using the appropriate tools, and obtain the required workability of the grout mix as per specification
- **PC3.** check the grouting pump and its accessories visually under supervision, to determine its usability
- **PC4.** install the grouting pump to the provided grouting nozzles, vents and ensure adequate water tightness, as instructed
- **PC5.** fix grouting caps to the ducts, anchorages as per instructions
- **PC6.** pump grout mix to the tendon ducts by operating the grouting machine
- **PC7.** carry out grouting as per the given instructions at the recommended gauge pressure
- **PC8.** check the gauge reading to ensure the applied pressure is as per the specification
- **PC9.** perform appropriate maintenance of grouting machine and its accessories after use, such as cleaning and oiling
- **PC10.** cut grouting nozzles and vents using the appropriate cutting tools as per the supervisor's instructions

#### **Knowledge and Understanding (KU)**

The individual on the job needs to know and understand:

- **KU1.** the materials to be used for the preparation of grout mix
- **KU2.** the recommended proportion of grout materials and water for preparing grout mix
- **KU3.** the use and functions of additives in grout mix
- **KU4.** the use of hand/ power tools to achieve homogeneity of grout mix
- **KU5.** how to operate hand grouting machine
- **KU6.** the pressure to be applied for grouting work as per specification
- **KU7.** the visual inspection to be performed to check the completion of grouting work





#### **Generic Skills (GS)**

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

- **GS1.** maintain the appropriate data and records
- **GS2.** read the appropriate reports and literature concerning the field of work
- **GS3.** communicate professionally with all the stakeholders
- **GS4.** listen attentively to understand the information/ instructions being shared and take appropriate action
- **GS5.** coordinate with the co-workers to achieve the work objectives
- **GS6.** plan and execute tasks based on their priority
- **GS7.** identify possible disruptions to work and take appropriate mitigation measures
- **GS8.** take prompt action to deal with workplace emergencies and accidents
- **GS9.** evaluate all possible solutions to work-related problems and select the best one
- **GS10.** follow the recommended practices for the timely completion of work and achievement of organizational objectives





## **Assessment Criteria**

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Prepare grout mix and grout the pre-stressing ducts	30	60	-	10
<b>PC1.</b> collect suitable materials, such as cement, additives and water for grouting in the mixing pan in the recommended proportion	-	-	-	-
<b>PC2.</b> prepare the grouting mix using the appropriate tools, and obtain the required workability of the grout mix as per specification	-	-	-	-
<b>PC3.</b> check the grouting pump and its accessories visually under supervision, to determine its usability	-	-	-	-
<b>PC4.</b> install the grouting pump to the provided grouting nozzles, vents and ensure adequate water tightness, as instructed	-	-	-	-
<b>PC5.</b> fix grouting caps to the ducts, anchorages as per instructions	-	-	-	-
<b>PC6.</b> pump grout mix to the tendon ducts by operating the grouting machine	-	-	-	-
<b>PC7.</b> carry out grouting as per the given instructions at the recommended gauge pressure	-	-	-	-
<b>PC8.</b> check the gauge reading to ensure the applied pressure is as per the specification	-	-	-	-
<b>PC9.</b> perform appropriate maintenance of grouting machine and its accessories after use, such as cleaning and oiling	-	-	-	-
<b>PC10.</b> cut grouting nozzles and vents using the appropriate cutting tools as per the supervisor's instructions	-	-	-	-
NOS Total	30	60	-	10





## **National Occupational Standards (NOS) Parameters**

NOS Code	CON/N0803
NOS Name	Prepare grout mix and carry out pressure grouting
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Prestressing
NSQF Level	3
Credits	3
Version	3.0
Last Reviewed Date	31/08/2023
Next Review Date	29/02/2024
NSQC Clearance Date	31/08/2023

# Skill Developing of Council

#### **Oualification 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

**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	-	-
<b>PC1.</b> understand the significance of employability skills in meeting the job requirements	-	-	-	-
Constitutional values - Citizenship	1	1	-	-
<b>PC2.</b> identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices	-	-	-	-
Becoming a Professional in the 21st Century	1	3	-	-
<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.	-	-	-	-
Basic English Skills	2	3	-	-
<b>PC4.</b> speak with others using some basic English phrases or sentences	-	-	-	-
Communication Skills	1	1	-	-
<b>PC5.</b> follow good manners while communicating with others	-	-	-	-
PC6. work with others in a team	-	-	-	-
Diversity & Inclusion	1	1	-	-
<b>PC7.</b> communicate and behave appropriately with all genders and PwD	-	-	-	-
PC8. report any issues related to sexual harassment	-	-	-	-
Financial and Legal Literacy	3	4	-	-
<b>PC9.</b> 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
<b>PC11.</b> approach the concerned authorities for any exploitation as per legal rights and laws	-	-	-	-
Essential Digital Skills	4	6	-	-
<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	-	-	-	-
Entrepreneurship	3	5	-	-
<b>PC14.</b> identify and assess opportunities for potential business	-	-	-	-
<b>PC15.</b> identify sources for arranging money and associated financial and legal challenges	-	-	-	-
Customer Service	2	2	-	-
PC16. identify different types of customers	-	-	-	-
<b>PC17.</b> identify customer needs and address them appropriately	-	-	-	-
<b>PC18.</b> 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	-	-	-	-
<b>PC21.</b> 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	08/05/2025
Next Review Date	08/05/2028
NSQC Clearance Date	08/05/2025

## 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) 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 knowledge part will be based on knowledge bank of questions created by Assessment Bodies subject to approval by SSC.
- 3. Individual assessment agencies will create unique question papers for knowledge/theory part for assessment of candidates as per assessment criteria given below.
- 4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on assessment criteria.
- 5. The passing percentage for each QP will be 50%. To pass the Qualification Pack, every trainee should score a minimum of 50% individually in each NOS.
- 6. The Assessor shall check the final outcome of the practices while evaluating the steps performed to achieve the final outcome.
- 7. The trainee shall be provided with a chance to repeat the test to correct his procedures in case of





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

- 8. After the certain number of iterations as decided by SSC the trainee is marked as fail, scoring zero marks for the procedure for the practical activity.
- 9. 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 timeframe set by SSC.
- 10. Minimum duration of Assessment of each QP shall be of 4hrs/trainee.

#### Minimum Aggregate Passing % at QP Level: 50

(**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/N0801.Handle and store pre-stressing tools and materials	30	60	0	10	100	30
CON/N0802.Assist in uncoiling, cutting and placing ducts and tendons	30	60	0	10	100	30
CON/N0803.Prepare grout mix and carry out pressure grouting	30	60	0	10	100	25
CON/N8001.Work effectively in a team to deliver desired results at the workplace	30	70	0	0	100	5
CON/N9001.Work according to personal health, safety and environment protocols at construction site	30	70	0	0	100	5
DGT/VSQ/N0101.Employability Skills (30 Hours)	20	30	-	-	50	5
Total	170	350	0	30	550	100





## **Acronyms**

NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
TVET	Technical and Vocational Education and Training
MCQ	Multiple Choice Question
EHS	Environment Health and Safety
PPE	Personal Protective Equipment
RCC	Reinforced Cement Concrete





## **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.