



Qualification Pack



Facade Installer

QP Code: CON/Q1106

Version: 3.0

NSQF Level: 3.5

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CON/Q1106: Facade Installer

Brief Job Description

A Facade Installer performs facade installation of stick system and structural glazing type of curtain wall and panels. The individual conducts appropriate checks and takes necessary measurements before fixing the stick system, unitized, and structural glazing curtain walls.

Personal Attributes

The individual should be physically fit to work long durations in varying site conditions. The person should be organized, diligent, and methodical. The person should have appropriate verbal and written communication skills.

Applicable National Occupational Standards (NOS)

Compulsory NOS:

- [1. CON/N1116: Conduct appropriate checks and take necessary measurements to install curtain walls](#)
- [2. CON/N1117: Install stick system curtain walls](#)
- [3. CON/N1119: Install structural glazing type of facade](#)
- [4. CON/N8001: Work effectively in a team to deliver desired results at the workplace](#)
- [5. CON/N8002: Plan and organize work to meet expected outcomes](#)
- [6. CON/N9001: Work according to personal health, safety and environment protocols at construction site](#)
- [7. DGT/VSQ/N0101: Employability Skills \(30 Hours\)](#)

Qualification Pack (QP) Parameters

Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Interior and Exterior Finishes
Country	India
NSQF Level	3.5



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Credits	12
Aligned to NCO/ISCO/ISIC Code	NCO-2015/7125.0100
Minimum Educational Qualification & Experience	11th grade pass OR Completed 1st year of 3-year diploma (after 10th) and pursuing regular diploma OR 10th grade pass and pursuing continuous schooling OR 8th grade pass with 3 Years of experience in the relevant field OR Previous relevant Qualification of NSQF Level (2.5) with 3 Years of experience in the relevant field OR Previous relevant Qualification of NSQF Level (3) with 1.5 Years of experience in the relevant field
Minimum Level of Education for Training in School	5th Class
Pre-Requisite License or Training	NA
Minimum Job Entry Age	18 Years
Last Reviewed On	NA
Next Review Date	31/08/2026
NSQF Approval Date	31/08/2023
Version	3.0
Reference code on NQR	QG-3.5-CO-00801-2023-V2-CSDCI
NQR Version	1



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CON/N1116: Conduct appropriate checks and take necessary measurements to install curtain walls

Description

This occupational standards unit is about carrying out appropriate checks and taking the necessary measurements before fixing the stick system, unitized, and structural glazing curtain walls.

Scope

The scope covers the following :

- Conduct appropriate checks and take necessary measurements

Elements and Performance Criteria

Conduct appropriate checks and take necessary measurements

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

- PC1.** interpret the sketches and work methodology relevant to facade installation
- PC2.** select the appropriate type of panel material and frames and the method of fixing them
- PC3.** check the panels are of specified material and type and as per the given specifications
- PC4.** select the appropriate tools and equipment and check them before use to determine their usability
- PC5.** examine the glass panels for surface and edge defects
- PC6.** identify defective panels and frame members which are not fit for installation and replace them with the new ones
- PC7.** check the availability of appropriate lifting equipment at the installation site
- PC8.** measure and check the structural adequacy of interface structure to ensure the structure is fit to accommodate wall panels and connections, etc.
- PC9.** check the rigidity of the fixed-framed structure /interface
- PC10.** measure the sub-frame to ensure it is straight, aligned and rigid, and straighten it, as required
- PC11.** check to ensure the joints in the frame are as per the approved specification
- PC12.** ensure proper cleaning of joints and application of primer on them as applicable
- PC13.** check the wall framing members are secure in their place
- PC14.** check the gasket and sealant are as per the applicable specifications
- PC15.** check the fixing members are of the specified materials, type, and size
- PC16.** plan the installation of panels as the per approved method

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** the standard practices and safety measures concerning facade installation



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- KU2.** the importance of personal protection and the use of Personal Protective Equipment (PPE)
- KU3.** the use and maintenance of tools and equipment
- KU4.** the use of relevant sketches for facade installation and the facade installation process
- KU5.** different types of windows, such as, side hung, projecting side, top hung, tilt turn, vertical slider, horizontal slider, vertical pivot, horizontal pivot, etc.
- KU6.** different types of glasses used for panels
- KU7.** different types of frame materials, such as timber, steel, aluminium, PVCu, composites, etc.
- KU8.** different types of curtain walls, such as panelized curtain walls, unitized curtain walls, stick system curtain walls, rain screens, etc.
- KU9.** the properties and applications of different types of panelling material, such as aluminium composite panels, glass, glass fibre reinforced concrete, stone, ceramic, etc.
- KU10.** the appropriate fastening methods, such as clips and screws, backside attachment, etc.
- KU11.** the effects of temperature and vapour on facade
- KU12.** the applicable tolerance limits for the uniformity of joints
- KU13.** the use of different types of joints for frames, such as butt joint
- KU14.** different types of flashing and interface and the process of constructing them as per the relevant drawings and specifications
- KU15.** the difference between transom-drained, and mullion-drained curtain walls
- KU16.** the components of different types of curtain walls
- KU17.** the use of glazing gaskets and sealants
- KU18.** how to check for alignment, straightness and plumb and imperfections in panels and sub-frames
- KU19.** the importance and process of cleaning frame joints
- KU20.** the use of appropriate lifting devices to lift heavy panels
- KU21.** the applicable tolerance limits for panel positioning
- KU22.** how to keep the panels in the facade flat and straight using an appropriate number of screws per sheet
- KU23.** the principles of water and air tightness and the concept of drained, ventilated, and pressure equalized facades

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 priority
- GS7.** identify possible disruptions to work and take appropriate mitigation measures



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- 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



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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Conduct appropriate checks and take necessary measurements</i>	30	60	-	10
PC1. interpret the sketches and work methodology relevant to facade installation	-	-	-	-
PC2. select the appropriate type of panel material and frames and the method of fixing them	-	-	-	-
PC3. check the panels are of specified material and type and as per the given specifications	-	-	-	-
PC4. select the appropriate tools and equipment and check them before use to determine their usability	-	-	-	-
PC5. examine the glass panels for surface and edge defects	-	-	-	-
PC6. identify defective panels and frame members which are not fit for installation and replace them with the new ones	-	-	-	-
PC7. check the availability of appropriate lifting equipment at the installation site	-	-	-	-
PC8. measure and check the structural adequacy of interface structure to ensure the structure is fit to accommodate wall panels and connections, etc.	-	-	-	-
PC9. check the rigidity of the fixed-framed structure /interface	-	-	-	-
PC10. measure the sub-frame to ensure it is straight, aligned and rigid, and straighten it, as required	-	-	-	-
PC11. check to ensure the joints in the frame are as per the approved specification	-	-	-	-
PC12. ensure proper cleaning of joints and application of primer on them as applicable	-	-	-	-



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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC13. check the wall framing members are secure in their place	-	-	-	-
PC14. check the gasket and sealant are as per the applicable specifications	-	-	-	-
PC15. check the fixing members are of the specified materials, type, and size	-	-	-	-
PC16. plan the installation of panels as the per approved method	-	-	-	-
NOS Total	30	60	-	10



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National Occupational Standards (NOS) Parameters

NOS Code	CON/N1116
NOS Name	Conduct appropriate checks and take necessary measurements to install curtain walls
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Interior & Exterior Finishes
NSQF Level	3.5
Credits	3
Version	3.0
Last Reviewed Date	31/08/2023
Next Review Date	31/08/2026
NSQC Clearance Date	31/08/2023



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CON/N1117: Install stick system curtain walls

Description

This occupational standards unit is about installing stick system curtain walls.

Scope

The scope covers the following :

- Install stick system curtain walls

Elements and Performance Criteria

Install stick system curtain walls

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

- PC1.** check and ensure the wall members are cut to the appropriate length
- PC2.** install the vertical mullion over the floor edge with a steel angle, maintaining the recommended spacing
- PC3.** install expansion joint in vertical mullions as per instructions
- PC4.** attach the horizontal mullion (transom) to the vertical mullion to create a frame opening
- PC5.** install a corner block at the junction of the vertical mullion and rail
- PC6.** install panels in the vision area and spandrel panel cover area as per the specification
- PC7.** install vision panels in frame opening between floors as per the specifications
- PC8.** seal the inside of panels using a dry gasket or sealant, as specified
- PC9.** check each panel is plumb and panel joints are uniformly engaged as per the requirements
- PC10.** maintain panels in their position using full-length pressure plates and aluminum snap caps
- PC11.** follow the appropriate fastening method
- PC12.** enclose the spandrel area with a metal back pan (air and vapor barrier), with high-density glass fiber or mineral fiber insulation within the back pan
- PC13.** fasten and seal the back pan to the frame as per the specification
- PC14.** check pilot holes are of the appropriate size for the fastening process
- PC15.** check the screws and panel clip attachments are secured at the appropriate angle, as per the specified procedure
- PC16.** follow the recommended measures to protect the coated surface from damage during handling and installation
- PC17.** carry out weatherproofing and provide drainage in the stick system, as per the specifications
- PC18.** ensure window and door openings are provided as per the specification
- PC19.** create weep holes as applicable
- PC20.** follow the acceptable tolerance limit in fixing all the elements

Knowledge and Understanding (KU)



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The individual on the job needs to know and understand:

- KU1.** the process of measuring and marking the panels for installing facades
- KU2.** the applicable safety measures for facade installation
- KU3.** the use and maintenance of relevant tools and equipment
- KU4.** the use of relevant sketches for facade installation
- KU5.** different components of the stick build system and the hardware components for installation
- KU6.** different components of the stick system curtain wall
- KU7.** different hardware components for stick wall curtain system, such as anchors, aluminium connectors, setting blocks, corner blocks, pressure plates, caps, gaskets and sealants
- KU8.** the use of corner block to separate the glazing cavity of the sealed units from that of the spandrel area
- KU9.** different sealants and gaskets used for weatherproofing and drainage system

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 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



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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Install stick system curtain walls</i>	30	60	-	10
PC1. check and ensure the wall members are cut to the appropriate length	-	-	-	-
PC2. install the vertical mullion over the floor edge with a steel angle, maintaining the recommended spacing	-	-	-	-
PC3. install expansion joint in vertical mullions as per instructions	-	-	-	-
PC4. attach the horizontal mullion (transom) to the vertical mullion to create a frame opening	-	-	-	-
PC5. install a corner block at the junction of the vertical mullion and rail	-	-	-	-
PC6. install panels in the vision area and spandrel panel cover area as per the specification	-	-	-	-
PC7. install vision panels in frame opening between floors as per the specifications	-	-	-	-
PC8. seal the inside of panels using a dry gasket or sealant, as specified	-	-	-	-
PC9. check each panel is plumb and panel joints are uniformly engaged as per the requirements	-	-	-	-
PC10. maintain panels in their position using full-length pressure plates and aluminum snap caps	-	-	-	-
PC11. follow the appropriate fastening method	-	-	-	-
PC12. enclose the spandrel area with a metal back pan (air and vapor barrier), with high-density glass fiber or mineral fiber insulation within the back pan	-	-	-	-
PC13. fasten and seal the back pan to the frame as per the specification	-	-	-	-
PC14. check pilot holes are of the appropriate size for the fastening process	-	-	-	-



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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC15. check the screws and panel clip attachments are secured at the appropriate angle, as per the specified procedure	-	-	-	-
PC16. follow the recommended measures to protect the coated surface from damage during handling and installation	-	-	-	-
PC17. carry out weatherproofing and provide drainage in the stick system, as per the specifications	-	-	-	-
PC18. ensure window and door openings are provided as per the specification	-	-	-	-
PC19. create weep holes as applicable	-	-	-	-
PC20. follow the acceptable tolerance limit in fixing all the elements	-	-	-	-
NOS Total	30	60	-	10



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National Occupational Standards (NOS) Parameters

NOS Code	CON/N1117
NOS Name	Install stick system curtain walls
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Interior & Exterior Finishes
NSQF Level	3.5
Credits	3
Version	3.0
Last Reviewed Date	31/08/2023
Next Review Date	31/08/2026
NSQC Clearance Date	31/08/2023



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CON/N1119: Install structural glazing type of facade

Description

This occupational standards unit is about installing structural glazing type of facade.

Scope

The scope covers the following :

- Install structural glazing type of facade

Elements and Performance Criteria

Install structural glazing type of facade

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

- PC1.** check and ensure wall members are cut to the appropriate length
- PC2.** check the as-built surface for adequacy before fixing structural glazing
- PC3.** install the vertical mullion over the floor edge with a steel angle, maintaining the recommended spacing
- PC4.** install expansion joint in vertical mullions as per instructions
- PC5.** attach the horizontal mullion (transom) to the vertical mullion to create a frame opening
- PC6.** install a corner block at the junction of the vertical mullion and rail
- PC7.** install panels in the vision area and spandrel panel cover area as per the specification
- PC8.** install vision panels in frame opening between floors
- PC9.** check each panel is plumb and panel joints are uniformly engaged as per the requirements
- PC10.** maintain panels in their position using full-length pressure plates and aluminum snap caps
- PC11.** follow the appropriate fastening method
- PC12.** create a cap-less vertical joint system by sealing from the outside using silicone sealant as per specification
- PC13.** check the pilot holes are of the appropriate size for the fastening process
- PC14.** check the screws and panel clip attachments are secured at the appropriate angle as per the specified procedure
- PC15.** follow the recommended measures to protect the coated surface from damage during handling and installation
- PC16.** carry out weatherproofing and provide drainage in the stick system as per the specifications
- PC17.** ensure window and door openings are provided as per the specification
- PC18.** create weep holes as applicable
- PC19.** follow the acceptable tolerance limit in fixing all the elements

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:



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- KU1.** the use of schematic drawings and sketches for facade installation
- KU2.** different types of glass used for panels
- KU3.** different components of the structural glazing system including hardware components for installation
- KU4.** the components of structural glazing type of curtain wall
- KU5.** the applications of different curtain wall systems
- KU6.** the tolerance limits for the uniformity of joints
- KU7.** different types of joints in facade work
- KU8.** different types of sealants and gaskets used for weatherproofing and drainage system
- KU9.** the uses of silicon sealant and the process of its application

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 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



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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Install structural glazing type of facade</i>	30	60	-	10
PC1. check and ensure wall members are cut to the appropriate length	-	-	-	-
PC2. check the as-built surface for adequacy before fixing structural glazing	-	-	-	-
PC3. install the vertical mullion over the floor edge with a steel angle, maintaining the recommended spacing	-	-	-	-
PC4. install expansion joint in vertical mullions as per instructions	-	-	-	-
PC5. attach the horizontal mullion (transom) to the vertical mullion to create a frame opening	-	-	-	-
PC6. install a corner block at the junction of the vertical mullion and rail	-	-	-	-
PC7. install panels in the vision area and spandrel panel cover area as per the specification	-	-	-	-
PC8. install vision panels in frame opening between floors	-	-	-	-
PC9. check each panel is plumb and panel joints are uniformly engaged as per the requirements	-	-	-	-
PC10. maintain panels in their position using full-length pressure plates and aluminum snap caps	-	-	-	-
PC11. follow the appropriate fastening method	-	-	-	-
PC12. create a cap-less vertical joint system by sealing from the outside using silicone sealant as per specification	-	-	-	-
PC13. check the pilot holes are of the appropriate size for the fastening process	-	-	-	-
PC14. check the screws and panel clip attachments are secured at the appropriate angle as per the specified procedure	-	-	-	-



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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC15. follow the recommended measures to protect the coated surface from damage during handling and installation	-	-	-	-
PC16. carry out weatherproofing and provide drainage in the stick system as per the specifications	-	-	-	-
PC17. ensure window and door openings are provided as per the specification	-	-	-	-
PC18. create weep holes as applicable	-	-	-	-
PC19. follow the acceptable tolerance limit in fixing all the elements	-	-	-	-
NOS Total	30	60	-	10



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National Occupational Standards (NOS) Parameters

NOS Code	CON/N1119
NOS Name	Install structural glazing type of facade
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Interior & Exterior Finishes
NSQF Level	3.5
Credits	2
Version	3.0
Last Reviewed Date	31/08/2023
Next Review Date	31/08/2026
NSQC Clearance Date	31/08/2023



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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



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- 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



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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Interact and communicate in an effective manner</i>	18	42	-	-
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	-	-	-	-
<i>Support co-workers to execute the project requirements</i>	6	14	-	-
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	-	-	-	-
<i>Practice inclusion</i>	6	14	-	-
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	-	-	-	-
NOS Total	30	70	-	-



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National Occupational Standards (NOS) Parameters

NOS Code	CON/N8001
NOS Name	Work effectively in a team to deliver desired results at the workplace
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Generic 2
NSQF Level	4
Credits	1
Version	12.0
Last Reviewed Date	31/08/2023
Next Review Date	31/08/2026
NSQC Clearance Date	31/08/2023



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)



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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>	9	21	-	-
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	-	-	-	-
<i>Organise required resources as per work plan</i>	6	14	-	-
PC6. arrange the required manpower prior to commencement of work	-	-	-	-
PC7. organize the required materials, tools and tackles required for the task	-	-	-	-
<i>Complete work as per the plan</i>	15	35	-	-
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	-	-	-	-



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	-	-	-	-
NOS Total	30	70	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	CON/N8002
NOS Name	Plan and organize work to meet expected outcomes
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Generic 2
NSQF Level	4
Credits	1
Version	9.0
Last Reviewed Date	31/08/2023
Next Review Date	31/08/2026
NSQC Clearance Date	31/08/2023



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



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- 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>	6	14	-	-
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	-	-	-	-
<i>Adopt healthy & safe work practices</i>	15	35	-	-
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	-	-	-	-



Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC11. follow safety protocols and practices as laid down by site EHS department	-	-	-	-
PC12. obtain "height pass" clearance for working at heights	-	-	-	-
<i>Implement good housekeeping practices</i>	6	14	-	-
PC13. collect, segregate and deposit construction waste into appropriate containers based on their toxicity or hazardous nature	-	-	-	-
PC14. apply ergonomic principles wherever required	-	-	-	-
<i>Follow infection control guidelines as per applicability</i>	3	7	-	-
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	-	-	-	-
NOS Total	30	70	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	CON/N9001
NOS Name	Work according to personal health, safety and environment protocols at construction site
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Generic Safety
NSQF Level	4
Credits	1
Version	10.0
Last Reviewed Date	31/08/2023
Next Review Date	31/08/2026
NSQC Clearance Date	31/08/2023



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



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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



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



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



Qualification Pack

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	27/01/2022
Next Review Date	26/01/2025
NSQC Clearance Date	27/01/2022

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 70%. To pass the Qualification Pack, every trainee should score a minimum of 70% 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.



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- 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.
- 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.
- In case of successfully passing only certain number of NOSs, the trainee is eligible to take subsequent assessment on the balance NOSs to pass the Qualification Pack within the specified timeframe set by SSC.
- Minimum duration of Assessment of each QP shall be of 4hrs/trainee.

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/N1116. Conduct appropriate checks and take necessary measurements to install curtain walls	30	60	0	10	100	30
CON/N1117. Install stick system curtain walls	30	60	0	10	100	25
CON/N1119. Install structural glazing type of facade	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/N8002. Plan and organize work to meet expected outcomes	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



Qualification Pack

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
DGT/VSQ/N0101.Employability Skills (30 Hours)	20	30	-	-	50	5
Total	200	420	0	30	650	100



Qualification Pack

Acronyms

NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
TVET	Technical and Vocational Education and Training



Qualification Pack

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.



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Knowledge and Understanding (KU)	<p>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.</p>
Organisational Context	<p>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.</p>
Technical Knowledge	<p>Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities.</p>
Core Skills/ Generic Skills (GS)	<p>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.</p>
Electives	<p>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.</p>
Options	<p>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.</p>