



Qualification Pack



Assistant Facade Installer

QP Code: CON/Q1104

Version: 2.0

NSQF Level: 3

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CON/Q1104: Assistant Facade Installer

Brief Job Description

This job role is responsible for providing support in fixing and installing the faade panels into different type of framing materials like timber, steel, aluminum, PVCu and composite frames using appropriate hand and power tools

Personal Attributes

The individual is expected to be physically fit and should be able to work across various locations in extreme weather/site conditions. The person must be able to perform efficiently within a team, handle the various exterior finishes tools and materials and work responsibly.

Applicable National Occupational Standards (NOS)

Compulsory NOS:

1. [CON/N1108: Identify & handle hand and power tools relevant to faade installation](#)
2. [CON/N1109: Assist in fixing and installing the faade panels into the frames](#)
3. [CON/N1110: Fix the interface structures including brackets, frames for installing facades with different type of framing materials](#)
4. [CON/N8001: Work effectively in a team to deliver desired results at the workplace](#)
5. [CON/N9001: Work according to personal health, safety and environment protocol at construction site](#)

Qualification Pack (QP) Parameters

Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Interior & Exterior Finishes
Country	India
NSQF Level	3
Aligned to NCO/ISCO/ISIC Code	NCO-2004/7135.10



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Minimum Educational Qualification & Experience	5th Class with 6-12 Months of experience as a certified Helper Façade Installer OR 5th Class with 1-2 Years of experience in case of a Non trained worker, in same occupation
Minimum Level of Education for Training in School	Not Applicable
Pre-Requisite License or Training	NIL
Minimum Job Entry Age	18 Years
Last Reviewed On	19/06/2020
Next Review Date	24/07/2023
Deactivation Date	24/07/2023
NSQC Approval Date	22/08/2019
Version	2.0
Reference code on NQR	2019/CON/CSDCI/3305
NQR Version	2



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CON/N1108: Identify & handle hand and power tools relevant to faade installation

Description

This unit describes the skills and knowledge required to identify & handle hand and power tools relevant to faade installation

Scope

The scope covers the following :

- Identify & handle hand and power tools relevant to facade installation

Elements and Performance Criteria

Identify & handle hand and power tools relevant to facade installation

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

- PC1.** identify type of hand and power tools and their application
- PC2.** identify the source and access to power supply for using power tools
- PC3.** check the tools and equipments for serviceability and safety and any report any faults to superiors in accordance with organizational procedures
- PC4.** identify material for hand tool application
- PC5.** select equipment to hold material in position and place while using a hand or power tool
- PC6.** handle hand and power tools safely and effectively as per manufacturers guidelines
- PC7.** prevent damage to material and self while using hand and power tools
- PC8.** safely store and place hand tools when not in use
- PC9.** select appropriate power tools relevant to faade installation works
- PC10.** visually check power tools for safety and serviceability
- PC11.** switch off and place power tools safely after use
- PC12.** clean and maintain all tools and equipments after use

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** standard practices of faade installation works
- KU2.** safety rules and regulations for handling, shifting, collecting and stacking required faade installation materials, tools and tackles
- KU3.** personal protection including the use of the related safety gears, safety equipment & safety drills required for handling different false ceiling and drywall installation materials, tools and tackles
- KU4.** how to request tools and materials as per set procedures
- KU5.** maintenance of tools and equipment



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- KU6.** sketches for faade installation
- KU7.** manufacturers instructions for faade installation
- KU8.** different type of windows like fixed, side hung, projecting side, top hung, tilt-turn, vertical slider, horizontal slider, vertical pivot, horizontal pivot etc
- KU9.** different type of hand tools used in faade installation including tungsten wheel glass cutters speed cutters circle cutters radius and oval cutters vacuum straight edges lever and vacuum lifters plate and running pliers pop rivet pliers and general hand tools
- KU10.** different type of power tools used in faade installation including portable electric drills, screwdrivers, grinders, circular saws and jigsaws, plunge routers and sanders Drop, radius, mitre upcut saws, bench drills and grinders Portable pneumatic drills, nail and staple guns, pop rivet guns and compressors etc
- KU11.** hand and power tool manufacturer specifications and operational procedures
- KU12.** safety standards relevant to hand and power tools

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 in at least one language, preferably in the local language of the site
- GS3.** read instructions, guidelines, sign boards, safety rules and safety tags
- GS4.** read instructions and exit routes during emergency
- GS5.** speak in one or more language, preferably in one of the local languages of the site
- GS6.** listen and follow instructions communicated by supervisors
- GS7.** orally and efficiently communicate with team member
- GS8.** decide whether the workplace is safe for working and also check that the relevant work is not creating hazardous conditions for others
- GS9.** determine the appropriate types of hand and power tools for faade installation
- GS10.** plan self-work as per the direction /close supervision of seniors
- GS11.** ensure work is done within time and as per desired quality as per instructions provided by superiors
- GS12.** report to superiors in case the tools and equipment have any faults or fail to meet the requirement of serviceability and safety
- GS13.** identify location at which violation of any safety norms may lead to accident



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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Identify & handle hand and power tools relevant to facade installation</i>	30	70	-	-
PC1. identify type of hand and power tools and their application	-	-	-	-
PC2. identify the source and access to power supply for using power tools	-	-	-	-
PC3. check the tools and equipments for serviceability and safety and any report any faults to superiors in accordance with organizational procedures	-	-	-	-
PC4. identify material for hand tool application	-	-	-	-
PC5. select equipment to hold material in position and place while using a hand or power tool	-	-	-	-
PC6. handle hand and power tools safely and effectively as per manufacturers guidelines	-	-	-	-
PC7. prevent damage to material and self while using hand and power tools	-	-	-	-
PC8. safely store and place hand tools when not in use	-	-	-	-
PC9. select appropriate power tools relevant to faade installation works	-	-	-	-
PC10. visually check power tools for safety and serviceability	-	-	-	-
PC11. switch off and place power tools safely after use	-	-	-	-
PC12. clean and maintain all tools and equipments after use	-	-	-	-
NOS Total	30	70	-	-



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National Occupational Standards (NOS) Parameters

NOS Code	CON/N1108
NOS Name	Identify & handle hand and power tools relevant to faade installation
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Interior & Exterior Finishes
NSQF Level	3
Credits	TBD
Version	2.0
Last Reviewed Date	NA
Next Review Date	NA
NSQC Clearance Date	



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CON/N1109: Assist in fixing and installing the faade panels into the frames

Description

This unit describes the skills and knowledge required to assist in fixing and installing the faade panels into the frames

Scope

The scope covers the following :

- Carry out preparatory work prior to installation of facade panels
- Carry out marking, cutting and drilling of facade panels and frame members (Aluminum Composite Panel, Glass, Glass Fiber Reinforced Concrete, stone, ceramic)
- Provide support in fixing and installing the facade panels

Elements and Performance Criteria

Carry out preparatory work prior to installation of facade panels

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

- PC1.** identify required work materials, tools and equipments as per specifications
- PC2.** identify the process used for faade installation as per instructions from superiors
- PC3.** check the tools and equipments for serviceability and safety and any report any faults to superiors in accordance with organizational procedures
- PC4.** carry out visual checks to assess the glass panels for type ,size and imperfections
- PC5.** arrange suitable lifting equipment in place at point of installation
- PC6.** carry out proper lifting of panels using suitable lifting devices to the required places
- PC7.** set all framing members in place
- PC8.** remove any protection tapes from the edges of the panels
- PC9.** keep the panels level, plumb and square within allowable tolerances

Carry out marking, cutting and drilling of façade panels and frame members (Aluminum Composite Panel, Glass, Glass Fiber Reinforced Concrete, stone, ceramic)

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

- PC10.** identify tools and equipments as per specifications such as saws, drilling machine, shearing machines rivet guns etc
- PC11.** carry out proper marking of panels using suitable tools as per specifications
- PC12.** carry out cutting of panels as per desired/instructed size and as per the type of panels using appropriate tools and equipment
- PC13.** carry out proper precautions and safety measures while handling and cuttings facade panels
- PC14.** ensure contamination of curtain panels don't occur while cutting, grinding and drilling
- PC15.** measure and check the dimensions and accuracy of finish after cutting and drilling

Provide support in fixing and installing the facade panels

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



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- PC16.** carry out protection of adjoining elements and finishes during work
- PC17.** identify all the elements relevant to facade works for different curtain wall systems
- PC18.** keep the panels flat & straight with appropriate number of screws per sheet
- PC19.** keep all external and internal corners vertical and square, and fasten with screws tightly
- PC20.** install mullions, sill and base flashings as required in the specification
- PC21.** stack joints as per requirement for use as interlocked split
- PC22.** install all penetrations through cladding as required in the specification
- PC23.** install the first panel in a critical transition area like a corner
- PC24.** carry out proper mounting of the first panel for alignment with adjacent panels
- PC25.** provide proper spacing between panels
- PC26.** ensure that the panel clips are in line with the building's stud framing or furring while installation
- PC27.** fasten the panel clip firmly to the wall
- PC28.** use fasteners of correct size and spacing as per requirements
- PC29.** carry out fixing of different type of facade systems such as drained and ventilated facades curtain wall, pressure equalized facades etc as per instructions

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** standard practices for measuring and marking the panels for installing facades
- KU2.** safety rules and regulations for facade installation
- KU3.** personal protection including the use of the related safety gears & safety equipment
- KU4.** requesting tools and materials as per set procedures
- KU5.** maintenance of tools and equipment
- KU6.** safety rules and regulations for facade installation
- KU7.** safety rules and regulations for facade installation
- KU8.** different type of glass used for panels
- KU9.** different type of frame materials like timber, steel, aluminum, PVCu, composites, etc
- KU10.** different type of curtain walls such as panelized curtain wall, unitised curtain wall, stick system curtain wall, rain screens etc
- KU11.** types of paneling material (aluminum composite panel, glass, glass fiber reinforced concrete, stone, ceramic) and their respective properties and applications
- KU12.** appropriate fastening methods to be used (clips & screws, backside attachment, etc.)
- KU13.** safety rules and regulations for facade installation
- KU14.** tolerance limits for uniformity of joints and panel positioning
- KU15.** different types of joints to be used in frames including butt joint, etc
- KU16.** different flashing and interface and their construction as per drawings and specifications
- KU17.** transom drained curtain wall and mullion drained curtain wall
- KU18.** components of different type of curtain wall
- KU19.** use of glazing gaskets



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- KU20.** how to arrange suitable lifting equipment in place at point of installation
- KU21.** use of suitable lifting devices for lifting heavy panels to the required places
- KU22.** use of different type of tools for cutting and drilling in panels
- KU23.** allowable tolerance limits for panel positioning
- KU24.** how to keep the panels flat & straight with appropriate no. of screws per sheet
- KU25.** principles of water and air tightness and concept of drained facades, ventilated facades and pressure equalized facades
- KU26.** process of sealing of windows to surrounding wall
- KU27.** different type of windows like fixed, side hung, projecting side, top hung, tilt-turn, vertical slider, horizontal slider, vertical pivot, horizontal pivot etc
- KU28.** how to install all penetrations through cladding as required in the specification
- KU29.** the importance of providing proper spacing between panels
- KU30.** use fasteners of correct size and spacing as per requirements

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 in at least one language, preferably in the local language of the site
- GS3.** read instructions, guidelines, sign boards, safety rules and safety tags
- GS4.** read instructions and exit routes during emergency
- GS5.** speak in one or more language, preferably in one of the local languages of the site
- GS6.** listen and follow instructions communicated by supervisors
- GS7.** orally and efficiently communicate with team member
- GS8.** decide whether the workplace is safe for working and also check that the relevant work is not creating hazardous conditions for others
- GS9.** decide whether the panel is positioned as per tolerance limits
- GS10.** select appropriate tools, materials and equipment for faade installation
- GS11.** determine suitability of glass panels basis visual analysis of type, size and imperfections
- GS12.** determine whether there is suitable spacing between panels
- GS13.** select suitable fasteners of required size and spacing
- GS14.** plan self-work as per the direction /close supervision of a senior
- GS15.** ensure work is done within time and as per desired quality as per instructions provided by superiors
- GS16.** report to superiors in case the tools and equipment have any faults or fail to meet the requirement of serviceability and safety
- GS17.** avoid contamination of curtain panels while carrying out works
- GS18.** analyze specifications to carry out proper marking of panels
- GS19.** identify location at which violation of any safety norms may lead to accident



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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Carry out preparatory work prior to installation of facade panels</i>	9	21	-	-
PC1. identify required work materials, tools and equipments as per specifications	-	-	-	-
PC2. identify the process used for faade installation as per instructions from superiors	-	-	-	-
PC3. check the tools and equipments for serviceability and safety and any report any faults to superiors in accordance with organizational procedures	-	-	-	-
PC4. carry out visual checks to assess the glass panels for type ,size and imperfections	-	-	-	-
PC5. arrange suitable lifting equipment in place at point of installation	-	-	-	-
PC6. carry out proper lifting of panels using suitable lifting devices to the required places	-	-	-	-
PC7. set all framing members in place	-	-	-	-
PC8. remove any protection tapes from the edges of the panels	-	-	-	-
PC9. keep the panels level, plumb and square within allowable tolerances	-	-	-	-
<i>Carry out marking, cutting and drilling of façade panels and frame members (Aluminum Composite Panel, Glass, Glass Fiber Reinforced Concrete, stone, ceramic)</i>	6	14	-	-
PC10. identify tools and equipments as per specifications such as saws, drilling machine, shearing machines rivet guns etc	-	-	-	-
PC11. carry out proper marking of panels using suitable tools as per specifications	-	-	-	-
PC12. carry out cutting of panels as per desired/instructed size and as per the type of panels using appropriate tools and equipment	-	-	-	-



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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC13. carry out proper precautions and safety measures while handling and cuttings facade panels	-	-	-	-
PC14. ensure contamination of curtain panels don't occur while cutting, grinding and drilling	-	-	-	-
PC15. measure and check the dimensions and accuracy of finish after cutting and drilling	-	-	-	-
<i>Provide support in fixing and installing the facade panels</i>	15	35	-	-
PC16. carry out protection of adjoining elements and finishes during work	-	-	-	-
PC17. identify all the elements relevant to facade works for different curtain wall systems	-	-	-	-
PC18. keep the panels flat & straight with appropriate number of screws per sheet	-	-	-	-
PC19. keep all external and internal corners vertical and square, and fasten with screws tightly	-	-	-	-
PC20. install mullions, sill and base flashings as required in the specification	-	-	-	-
PC21. stack joints as per requirement for use as interlocked split	-	-	-	-
PC22. install all penetrations through cladding as required in the specification	-	-	-	-
PC23. install the first panel in a critical transition area like a corner	-	-	-	-
PC24. carry out proper mounting of the first panel for alignment with adjacent panels	-	-	-	-
PC25. provide proper spacing between panels	-	-	-	-
PC26. ensure that the panel clips are in line with the building's stud framing or furring while installation	-	-	-	-
PC27. fasten the panel clip firmly to the wall	-	-	-	-



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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC28. use fasteners of correct size and spacing as per requirements	-	-	-	-
PC29. carry out fixing of different type of facade systems such as drained and ventilated facades curtain wall, pressure equalized facades etc as per instructions	-	-	-	-
NOS Total	30	70	-	-



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National Occupational Standards (NOS) Parameters

NOS Code	CON/N1109
NOS Name	Assist in fixing and installing the faade panels into the frames
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Interior & Exterior Finishes
NSQF Level	3
Credits	TBD
Version	2.0
Last Reviewed Date	NA
Next Review Date	NA
NSQC Clearance Date	



Qualification Pack

CON/N1110: Fix the interface structures including brackets, frames for installing facades with different type of framing materials

Description

This NOS covers the skills and knowledge required by a workman to fix the interface structures including brackets, frames for installing facades with different type of framing materials like timber, steel, aluminum, PVCu and composite frames

Scope

The scope covers the following :

- Fix the frames and other interface structures for installing facades with different type of framing materials like timber, steel, aluminum, PVCu and composite frames

Elements and Performance Criteria

Fix the frames and other interface structures for installing facades with different type of framing materials like timber, steel, aluminum, PVCu and composite frames

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

- PC1.** clean walls, floors and other possible relevant areas prior to placing of brackets / frames
- PC2.** follow method statement / manufacturers instructions for installation of horizontal and vertical frames / brackets
- PC3.** check that steel frames are galvanized and powder coated
- PC4.** secure steel sections using robust hardware as per specification
- PC5.** provide uniform spacing between frames as per board dimension and layout
- PC6.** fix the ceiling, floor or facade frame by expansion screws, shooting nails etc
- PC7.** execute the necessary joints for the frame, to ensure stability of structure
- PC8.** provide control joints as per specifications/instructions
- PC9.** ensure horizontal bracing for all stud partitions are as per approved and standard procedures
- PC10.** provide weather proofing as per requirement and instructions
- PC11.** provide coping and parapets as per design requirement/ instruction
- PC12.** provide flashing under coping, at penetrations, window and door opening, at the base of walls as per instructions
- PC13.** fix frame of different types such as timer, stainless steel, aluminum, PVCU and composites as per instructions

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** standard practices for fixing sub structures in place



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- KU2.** safety rules and regulations followed
- KU3.** personal protection including the use of the related safety gears & safety equipment
- KU4.** requesting tools and materials as per set procedures
- KU5.** maintenance of tools and equipment
- KU6.** drawings and specifications related to fixing of sub structures
- KU7.** basic principles of measurement
- KU8.** selection and use of tools and equipments including broad knives, brooms, electric screw guns, hand and power drills, hand saws, scaffold planks, t squares, taping knives, trestles, etc
- KU9.** how to level the floor before installing the floor frame
- KU10.** different types of joints to be used in frames including butt joint, etc
- KU11.** method statement / manufacturers instructions for installation of horizontal and vertical frames
- KU12.** how to calculate area and layout of panel to be installed
- KU13.** the importance of providing uniform space between frames as per board dimension and layout
- KU14.** methods of fixing frames through use of expansion screws or shooting nails
- KU15.** how to ensure horizontal bracing for all stud partitions
- KU16.** provision of flashing for drainage
- KU17.** different type of framing materials like timber, steel, aluminum, PVCU and composite frames
- KU18.** aluminum frames and its application in stick system curtain walls, glazing screens and shop fronts
- KU19.** precautions taken while handling gaskets

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 in at least one language, preferably in the local language of the site
- GS3.** read instructions, guidelines, sign boards, safety rules and safety tags
- GS4.** read instructions and exit routes during emergency
- GS5.** speak in one or more language, preferably in one of the local languages of the site
- GS6.** listen and follow instructions communicated by supervisors
- GS7.** orally and efficiently communicate with team member
- GS8.** decide whether the workplace is safe for working and also check that the relevant work is not creating hazardous conditions for others
- GS9.** determine appropriate amount of spacing required to ensure uniformity
- GS10.** determine appropriate type of frame to be fixed, as per requirement / instructions
- GS11.** plan self-work as per the direction under close supervision of a superior
- GS12.** plan for methodology of fixing frames as per instructions



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- GS13.** ensure work is done within time and as per desired quality as per instructions provided by superiors
- GS14.** identify location at which violation of any safety norms may lead to accident



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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Fix the frames and other interface structures for installing facades with different type of framing materials like timber, steel, aluminum, PVCu and composite frames</i>	30	70	-	-
PC1. clean walls, floors and other possible relevant areas prior to placing of brackets / frames	-	-	-	-
PC2. follow method statement / manufacturers instructions for installation of horizontal and vertical frames / brackets	-	-	-	-
PC3. check that steel frames are galvanized and powder coated	-	-	-	-
PC4. secure steel sections using robust hardware as per specification	-	-	-	-
PC5. provide uniform spacing between frames as per board dimension and layout	-	-	-	-
PC6. fix the ceiling, floor or facade frame by expansion screws, shooting nails etc	-	-	-	-
PC7. execute the necessary joints for the frame, to ensure stability of structure	-	-	-	-
PC8. provide control joints as per specifications/instructions	-	-	-	-
PC9. ensure horizontal bracing for all stud partitions are as per approved and standard procedures	-	-	-	-
PC10. provide weather proofing as per requirement and instructions	-	-	-	-
PC11. provide coping and parapets as per design requirement/ instruction	-	-	-	-
PC12. provide flashing under coping, at penetrations, window and door opening, at the base of walls as per instructions	-	-	-	-



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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC13. fix frame of different types such as timer, stainless steel, aluminum, PVCU and composites as per instructions	-	-	-	-
NOS Total	30	70	-	-



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National Occupational Standards (NOS) Parameters

NOS Code	CON/N1110
NOS Name	Fix the interface structures including brackets, frames for installing facades with different type of framing materials
Sector	Construction
Sub-Sector	Real Estate and Infrastructure construction
Occupation	Interior & Exterior Finishes
NSQF Level	3
Credits	TBD
Version	2.0
Last Reviewed Date	NA
Next Review Date	NA
NSQC Clearance Date	



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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 effectively with co-workers, superiors and sub-ordinates across different teams
- Support co-workers, superiors and sub-ordinates within the team and across interfacing teams to ensure effective execution of assigned task

Elements and Performance Criteria

Interact and communicate in effective and conclusive 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.** address the problems effectively and report if required to immediate supervisor appropriately
- PC4.** receive instructions clearly from superiors and respond effectively on the same
- PC5.** communicate to team members/subordinates for appropriate work technique and method
- PC6.** seek clarification and advice as per the requirement and applicability

Support co-workers to execute 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

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** own roles and responsibilities
- KU2.** importance of effective communication and establishing strong working
- KU3.** risks of a failure in teamwork in terms of effects on project outcomes, timelines, safety at the construction site, etc.
- KU4.** different modes of communication, and its appropriate usage
- KU5.** importance of creating healthy and cooperative work environment among the gangs of workers



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- KU6.** different activities within his work area where an 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
- KU9.** importance and need of supporting co-workers facing problems for smooth

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 in one or more languages, preferably the local language of the site
- GS3.** read communication from team members regarding work completed, materials used, tools and tackles used, support required
- GS4.** speak in one or more languages, preferably in one of the local language of the site
- GS5.** listen and follow instructions / communication shared by superiors/ co-workers regarding team requirements or interfaces during work processes
- GS6.** orally communicate with co-workers regarding support required to complete the respective work
- GS7.** decide on what information is to be shared with co-workers within the team or from interfacing gang of workers
- GS8.** plan work and organize required resources in coordination with team members
- GS9.** complete all assigned task in coordination with team members
- GS10.** take initiative in resolving issues among co-workers or report the same to superiors
- GS11.** ensure best ways of coordination among team members
- GS12.** communicate with co-workers considering their educational / social background
- GS13.** 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 effective and conclusive 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. address the problems effectively and report if required to immediate supervisor appropriately	-	-	-	-
PC4. receive instructions clearly from superiors and respond effectively on the same	-	-	-	-
PC5. communicate to team members/subordinates for appropriate work technique and method	-	-	-	-
PC6. seek clarification and advice as per the requirement and applicability	-	-	-	-
<i>Support co-workers to execute project requirements</i>	12	28	-	-
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	-	-	-	-
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	Generic
Occupation	Generic
NSQF Level	4
Credits	TBD
Version	4.0
Last Reviewed Date	NA
Next Review Date	NA
NSQC Clearance Date	



Qualification Pack

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

Description

This NOS covers the skill and knowledge required for an individual to work according to personal health, safety and environmental protocol 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

Elements and Performance Criteria

Follow safety norms as defined by 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.** participate in safety awareness programs like Tool Box Talks, safety demonstrations, mock drills, conducted at site
- PC5.** select and operate different types of fire extinguishers corresponding to 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 including: Head Protection (Helmets), Ear protection Fall Protection, Foot Protection, Face and Eye Protection, Hand and Body Protection, Respiratory Protection (if required)
- PC8.** handle all required tools, tackles , materials & equipment safely
- PC9.** follow safe disposal of waste, harmful and hazardous materials as per EHS guidelines
- PC10.** install and apply properly all safety equipment as instructed
- PC11.** follow safety protocol and practices as laid down by site EHS department
- PC12.** undertake and pass height pass test as per EHS guideline

Implement good housekeeping practices

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

- PC13.** collect and deposit construction waste into identified containers before disposal, separate containers that may be needed for disposal of toxic or hazardous wastes
- PC14.** apply ergonomic principles wherever required



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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 to be used based on various working conditions
- KU6.** importance of handling tools, equipment and materials as per applicable
- KU7.** health and environments effect of construction materials as per applicability
- KU8.** various environmental protection methods as per applicability
- KU9.** storage of waste including the following at appropriate location: 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
- KU10.** how to use hazardous material, in a safe and appropriate manner as per applicability
- KU11.** types of fire
- KU12.** procedure of operating different types of fire extinguishers
- KU13.** safety relevant to tools, tackles, & requirement as per applicability
- KU14.** housekeeping activities relevant to task

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
- GS4.** read sign boards, notice boards relevant to safety
- GS5.** speak in one or more language, preferably in one of the local language of the site
- GS6.** listen instructions / communication shared by site EHS and superiors regarding site safety, and conducting tool box talk
- GS7.** communicate reporting of site conditions, hazards, accidents, etc.
- GS8.** not create unsafe conditions for others
- GS9.** keep the workplace clean and tidy
- GS10.** identify safety risks that affect the health, safety and environment for self and others working in the vicinity, tackle it if within limit or report to appropriate authority
- GS11.** assess and analyze areas which may affect health, safety and environment protocol on the site
- GS12.** ensure personal safety behavior



GS13. respond to emergency



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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Follow safety norms as defined by organization</i>	9	21	-	-
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. participate in safety awareness programs like Tool Box Talks, safety demonstrations, mock drills, conducted at site	-	-	-	-
PC5. select and operate different types of fire extinguishers corresponding to 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 including: Head Protection (Helmets), Ear protection Fall Protection, Foot Protection, Face and Eye Protection, Hand and Body Protection, Respiratory Protection (if required)	-	-	-	-
PC8. handle all required tools, tackles , materials & equipment safely	-	-	-	-
PC9. follow safe disposal of waste, harmful and hazardous materials as per EHS guidelines	-	-	-	-
PC10. install and apply properly all safety equipment as instructed	-	-	-	-



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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC11. follow safety protocol and practices as laid down by site EHS department	-	-	-	-
PC12. undertake and pass height pass test as per EHS guideline	-	-	-	-
<i>Implement good housekeeping practices</i>	6	14	-	-
PC13. collect and deposit construction waste into identified containers before disposal, separate containers that may be needed for disposal of toxic or hazardous wastes	-	-	-	-
PC14. apply ergonomic principles wherever required	-	-	-	-
NOS Total	30	70	-	-



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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.



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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 iteration 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 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.
- 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/N1108. Identify & handle hand and power tools relevant to faade installation	30	70	-	-	100	15
CON/N1109. Assist in fixing and installing the faade panels into the frames	30	70	-	-	100	25
CON/N1110. Fix the interface structures including brackets, frames for installing facades with different type of framing materials	30	70	-	-	100	35
CON/N8001. Work effectively in a team to deliver desired results at the workplace	30	70	-	-	100	10
CON/N9001. Work according to personal health, safety and environment protocol at construction site	30	70	-	-	100	15
Total	150	350	-	-	500	100



Qualification Pack

Acronyms

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



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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>