Model Curriculum

Foreman Facade Installation

SECTOR: Construction
SUB-SECTOR: Real Estate and Infrastructure Construction
OCCUPATION: Interior and Exterior Finishes
REF ID: CON/Q1110, V1.0
NSQF LEVEL: 5

Skill India
कौशल भारत-कुशल भारत

Certificate

N·S·D·C National Skill Development Corporation
Transforming the skill landscape

CURRICULUM COMPLIANCE TO QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS

is hereby issued by the

CONSTRUCTION SKILL DEVELOPMENT COUNCIL OF INDIA

for the

MODEL CURRICULUM

Complying to National Occupational Standards of
Job Role/ Qualification Pack: 'Foreman - Façade Installation' QP No. 'CON/ Q1110 NSQF Level 5'

Date of Issuance: January 31st, 2017

Valid up to: August 23rd , 2017

*Valid up to the next review date of the Qualification Pack

Authorised Signatory
(Construction Skill Development Council of India)

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Foreman Facade Installation

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a "Foreman Facade Installation", in the "Construction" Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	**Foreman Facade Installation**		
Qualification Pack Name & Reference ID	CON/Q1110, v1.0		
Version No.	1.0	**Version Update Date**	23-08-2017
Pre-requisites to Training	Preferably 10th standard with 12 years site experience in same occupation for Non-trained worker/ 3 years site experience as a certified Chargehand Façade Installer for trained worker.		
Training Outcomes	**After completing this programme, participants will be able to:** • **Gain insight into the job role of Foreman façade installer:** Introduction to the roles and responsibilities of the job role, its career progression and expected outcomes. • **Read & interpret specification, standards, and schematic working drawings for Façade Installation works: -** Read and interpret drawing and specification related to façade installation works • **Check and ensure completion of preparatory works prior to installation of façades:-** Perform various checks to ensure completion of preparatory works prior to installation of façades • **Ensure execution of façade installation works as per specifications and standard practices:-** Perform various checks to ensure execution of façade installation works as per specifications and standard practices • **Plan, arrange and manage resources for execution of relevant work:-** Plan the work as per scope of work and arrange manpower, tools and equipment for execution of work • **Work effectively in a team to deliver desired results at the workplace** – Develop/ promote team working and coordinate with different trade personnel • **Plan and organize work to meet expected outcomes –** Introduction to preparation of work schedule, resource and manpower allocation • **Supervise, monitor and evaluate performance of subordinates at workplace –** Learn and practice method of motivating and guiding subordinates to get the assigned task done as per desired quality and productivity norms • **Manage workplace for safe and healthy work environment** – Learn and observe applicable safe work practices and environmental norms, relevant to construction		

This course encompasses 8 out of 8 National Occupational Standards (NOS) of "Foreman Facade Installation" Qualification Pack issued by "Construction Skill Development Council of India".

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	**Introduction** **Theory Duration** (hh:mm) 8:00 **Practical Duration** (hh:mm) 00:00	**Understand the concept of :-** • Role description/ functions of the job role • Expected personal attributes from the job role of foreman concrete • Brief description about course content, mode of learning and duration of course • Future possible progression and career development provisions on completion of the course • Soft skills as applicable to communication, decision making and personal behavior	Classroom Requirement 1. Classroom having seating requirement for 30 people. 2. Projector 3. Toilet/Urinals (Separate for gents and Ladies) 4. Blackboard 5. Trade specific charts and other teaching aids
2	**Read & interpret specification, standards, and schematic working drawings for Facade Installation works** **Theory Duration** (hh:mm) 40:00 **Practical Duration** (hh:mm) 96:00 **Corresponding NOS Code** CON/N1130	**Theory: -** **Understand the concept of :-** • Terminology used in façade installation works • schematic drawings and sketches for façade installation • different architectural drawing for façade installation • Procedure to read plan, elevation and sectional drawings • principals involved in reading and interpreting various relevant drawings • scope of work for façade installation works • shop drawing for façade installation works • Simplified sketch preparation from the architectural drawings • Standards and specifications for execution of façade installation works. • Manufacturer's specification and work method statement for façade installation works. • Schedule and scope of façade installation works • Tools and equipment used for façade installation works **Demonstration/ Practical: -** • Demonstrate identification of schematic drawing relevant to façade installation • Demonstrate reading & understanding of details like place of fixing, dimensions and type of façade for façade installation works from relevant drawings • Demonstrate reading & understanding details from schedule of facade installation work • Demonstrate reading & understanding specification and standards provided for facade installation works	1. Measuring tape 2. Scale 3. Right angle 4. Framing square 5. Chalk line 6. pencil 7. Line dori 8. Plumb bob 9. Spirit level

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		• Demonstrate reading & understanding of operational standards /manufacture's specification of all relevant facade installation tools and equipment • Demonstrate reading & understanding of method statement for execution of facade installation work • Demonstrate reading & understanding of manufactures specification for operation of power tools • Demonstrate reading & understanding of standard technical specification within scope of work • Calculate quantity of materials, time and resources required from relevant schematic working drawings • Demonstrate process to convey work to workman by making a simplified sketch	
3	**Check and ensure completion of preparatory works prior to installation of façades** **Theory Duration** (hh:mm) 44:00 **Practical Duration** (hh:mm) 112:00 **Corresponding NOS Code** CON/N1131	**Theory: -** **Understand the concept of :-** • various structural drawings relevant to façade installation works • basic principles of measurement, arithmetic along with simple geometry • methodology for estimation of required resource and material for façade installation works • standard specifications and standard tolerance levels for of façade installation work • tools and tackles used for carrying out field measurements • process of carrying out markings to guide activities of subordinates • methodology for checking line ,level and alignment • methodology of façade installation works • manufacturer's instructions for façade installation work at construction site • different type of glass used for panels • different type of frame materials like timber, steel, aluminium, PVCu, composites etc. • different type of curtain walls such as panelized curtain wall, unitised curtain wall, stick system curtain wall, rainscreens etc. • types of paneling material (aluminium composite panel, glass, glass fiber reinforced	**Since the demonstration/ practical training is being conducted on-site to get the required competencies the tools required will be acquirable at site.

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		concrete, stone, ceramic) and their respective properties and applications • appropriate fastening methods to be used (clips & screws, backside attachment, etc) • impact of temperature, vapour, etc. on facades • tolerance limits for uniformity of joints • Different types of joints to be used in frames including butt joint, etc. • different flashing and interface and their construction as per drawings and specifications • transom drained curtain wall and mullion drained curtain wall • components of different type of curtain wall • Various uses of glazing gaskets • Process of arranging suitable lifting equipment in place at point of installation • preventive and corrective action to ensure the completion of preparatory works prior to façade installation **Demonstration/ Practical: -** • Demonstrate statutory compliances to be maintained during façade installation works • Demonstrate preparation of detailed work plan execution of façade installation work at construction site • Demonstrate checks to ensure adequacy of structure in accommodating wall panels . • Demonstrate checks to ensure setting out for façade work is as per the approved drawing • Demonstrate checks to be carried out to ensure working platforms, hand rails and access stairs are safe for working • Demonstrate checks to be carried out to ensure workplace is clear of debris and guard rails, safety nets & kerb boards are in place • Demonstrate checks to ensure material used for work is as per approved drawing • Demonstrate checks to ensure tools and equipment for façade installation work are provided at the workplace • Carry out marking of grid layout • Demonstrate checks to ensure frame and panel material is as per specification	

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		• Demonstrate checks to ensure frames and panels are measured and cut as per approved drawing • Demonstrate checks to ensure panels are not damaged, and replace panels which are not fit for installation • Demonstrate checks to ensure provisions for doors, windows, etc. as per applicability • Estimate type, shape and quantity of panels required to install the façade • Demonstrate checks to ensure that suitable lifting equipment is in place at point of installation • Demonstrate checks to ensure openings for glazing are correctly sized and within tolerance	
4	**Ensure execution of façade installation works as per specifications and standard practices** **Theory Duration** (hh:mm) 44:00 **Practical Duration** (hh:mm) 112:00 **Corresponding NOS Code** CON/N1132	**Theory: -** **Understand the concept of :-** • various structural drawings relevant to façade installation works • basic principles of measurement, arithmetic along with simple geometry • methodology for estimation of required resource and material for façade installation works • standard specifications and standard tolerance levels for of façade installation work • methodology for checking line ,level and alignment • methodology for installing panels and partition works • methodology of installing panels for architectural / ornamental designs • methodology of façade installation works • manufacturer's instructions for façade installation work at construction site • different type of glass used for panels • different type of frame materials like timber, steel, aluminium, PVCu, composites etc. • different type of curtain walls such as panelized curtain wall, unitised curtain wall, stick system curtain wall, rainscreens etc. • types of paneling material (aluminium composite panel, glass, glass fiber reinforced concrete, stone, ceramic) and their respective properties and applications • appropriate fastening methods to be used (clips & screws, backside attachment, etc)	**Since the demonstration/ practical training is being conducted on-site to get the required competencies the tools required will be acquirable at site.

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		• impact of temperature, vapour, etc. on facades • tolerance limits for uniformity of joints • Different types of joints to be used in frames including butt joint, etc. • different flashing and interface and their construction as per drawings and specifications • transom drained curtain wall and mullion drained curtain wall • components of different type of curtain wall • Various uses of glazing gaskets • Process of arranging suitable lifting equipment in place at point of installation • preventive and corrective action to ensure the completion of preparatory works prior to façade installation **Demonstration/ Practical (D/P): -** • Demonstrate checks to ensure setting out of panels is as per the approved drawings • Demonstrate checks to ensure working platforms and access stairs are safe for working • Demonstrate checks to ensure workplace is clear of debris and guard rails, safety nets & kerb boards are in place • Demonstrate checks to ensure all tools, tackles, consumables ,materials and equipment are available prior to commencement of work • Demonstrate checks to ensure distance from outside of framing to outside of concrete footing is as per specification • Demonstrate checks to ensure the height of ground level below floor level and out is as per specifications around base to allow for installation work • Demonstrate checks to ensure the studs are straight and levelled for wall lining prior to installation • Demonstrate checks to ensure that wall wrap is fixed to the exterior wall framing prior to installation of panels • Demonstrate checks to ensure wall wrap is continuous around corners and installed horizontally	

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		• Demonstrate checks to ensure that all penetrations such as waste water pipes, etc. have been flashed to the building wrap using approved flexible flashing tape • provide weep system as per drawing/requirements in the façade system • Demonstrate checks to ensure application of approved flexible flashing tape around openings prior to the installation of any joinery • Demonstrate checks to ensure panel joints are finished as per instructions • Demonstrate checks to ensure proper fixing of panels as per approved drawings • Demonstrate checks for line, level & alignment of installed panels for façade installation works • Demonstrate checks to ensure uniform spacing between joints • highlight errors to workers, suggest remedial action & demonstrate correct work processes as and when required • Demonstrate checks to ensure panel installation works are within specified tolerances limit and as per specified standards	
5	**Plan, arrange and manage resources for execution of relevant work** **Theory Duration** (hh:mm) 44:00 **Practical Duration** (hh:mm) 112:00 **Corresponding NOS Code** **CON/N7001**	**Theory:-** **Understand the concept of:-** • Method of estimating qualities and determining quantum of work • Method of resource calculation and ascertaining timelines for assigned task • Method of submitting the requirement to seniors • Method of identifying priority and critical activity of a task • Method and technique on briefing team members about relevant work • Importance of daily productivity report and its preparation • Importance of daily attendance register and its preparation • Method of calculation of quantum of façade installation work • Method of calculation of tools and material requirement for façade installation works • Method of optimization of available resources	**Since the demonstration/ practical training is being conducted on-site to get the required competencies the tools required will be acquirable at site.

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		• Different check to evaluate progress and quality of relevant works • Organizing resources and quality checks to be performed as per requirement of the façade installation works **Demonstration/ Practical (D/P) :-** • Prepare work schedule as per planning • Determine quantum of work and calculate manpower required for work. • Submit manpower requirement to seniors and procure approval of the same. • Allocate resources for the work • Allocate material , equipment and tools to workmen and extract the work as per plan • Provide clear instruction to workman and extract work as per schedule. • Explain deviation in works and justify the same • Minimize wastage as per standard working method • Prepare format for daily labour attendance • Prepare format for daily productivity report and calculate the daily productivity for a given work	
6	**Work effectively in a team to deliver desired results at the workplace** **Theory Duration** (hh:mm) 16:00 **Practical Duration** (hh:mm) 32:00 **Corresponding NOS Code** CON/N8001	**Theory:-** **Understand the concept of:-** • Introduction to leadership development program • Effective communication skill during guiding/ instructing subordinate • Productivity norms related to activities to be performed • Promoting organisational safety and quality norms within the workplace • Safety awareness to be created within workplace and safe work method to be followed • Clarify confusions among subordinates and provide clear instruction • Reporting procedure to the seniors in oral/ written format as applicable to the organisational norms • Coordinate with different trade personnel to obtain/ pass on work information • Ensure safety of subordinates by completing all necessary safety formalities	**Since the demonstration/ practical training is being conducted on-site to get the required competencies the tools required will be acquirable at site.

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		Demonstration/ Practical (D/P): - The skills will be developed and practiced while carrying out following trade related activities in a predictable and familiar working condition • Briefing about work targets, scopes and timelines to be achieved • Demonstrate advantages of team working and effective communication procedure within the team • Seeking information/ updates from subordinates at regular interval • Reporting to senior or other trade personnel in appropriate reporting procedure • Analyze problems identified within team and take necessary action • Motivate subordinate to increase productivity • Allocate manpower for assigned task according to their personal attributes/ expertise (as applicable)	
7	**Plan and organize work to meet expected outcomes** **Theory Duration** (hh:mm) 16:00 **Practical Duration** (hh:mm) 32:00 **Corresponding NOS Code CON/N8002**	**Theory:-** **Understand the concept of:-** • Method of resource planning and ascertaining timelines for assigned task • Organising resources and quality checks to be performed as per requirement of façade works • Method of preparation of work schedule • Method of estimation of resources from drawings/ schedules • Monitoring procedure of ongoing works and inspection of completed works to ensure compliance with all l safety and quality parameters • Method of preparation of observation data sheet, inspection report • Method of reconcile material used for assigned task • Method of preparation of budget for façade installation work **Demonstration/ Practical (D/P) :-** • Prepare work schedule as per planning • Arrange material and required tools/ fixtures prior to start any work • Explain deviation in works and justify the same • Suggest alternative arrangement/ use of equipment in case of emergency situation	**Since the demonstration/ practical training is being conducted on-site to get the required competencies the tools required will be acquirable at site.

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		• Coordinate with subordinates and different trade personnel • Minimize wastage as per standard working method	
8	**Supervise, monitor and evaluate performance of subordinates at workplace** **Theory Duration** (hh:mm) 16:00 **Practical Duration** (hh:mm) 32:00 **Corresponding NOS Code** CON/N9001	**Theory: -** • Setting up timelines for completion of activities as per resource deployed and productivity norms • Managing manpower and allocation of manpower as per deadline provided for assign task • Critical quality aspects to be checked in the ongoing façade installation works • How to provide timely instructions to the subordinates during ongoing façade installation works • How to evaluate strengths and weakness of subordinate workers and utilize them appropriately as per job requirement • Method of supervising activities to increase productivity of workers and achieving set quality and safety standards for the façade installation works **Demonstration/ Practical (D/P): -** • Instruct subordinates for applicable working methods and safety norms for assigned for façade installation works • Seek work related clarifications from subordinates and provide support/ guidance as per requirement of the job • Observe each subordinate as per their strength and weaknesses and deploy them as per criticality/ emergency of the job • Implement organisational/ quality / safety work methods while undertaking any job and ensure compliance to the same by subordinates	**Since the demonstration/ practical training is being conducted on-site to get the required competencies the tools required will be acquirable at site.
9	**Manage workplace for safe and healthy work environment** **Theory Duration** (hh:mm) 16:00 **Practical Duration** (hh:mm) 32:00	**Theory: -** • Types of hazards involved in construction sites • Types of hazards involved in concreting works • Process of hazard analysis for concreting works • Detailed safety norms as per standard practice and organizational policy, procedure	**Since the demonstration/ practical training is being conducted on-site to get the required competencies the tools required will be acquirable at site.

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	Corresponding NOS Code CON/N9002	of providing CPR, first aids, use of regular and job specific PPEs as per requirement • classification of fire and use of fire protection devices • Emergency safety control measures and actions to be taken under emergency situation • Concept of: - 1. First Aid process 2. Use of fire extinguisher 3. Classification of fires and fire extinguisher 4. Safety drills 5. Types and use of PPEs as per general and structural execution works safety norms • Reporting procedure to the concerned authority in emergency situations • Standard procedure of handling, storing and stacking material, tools and equipment for concreting works • What is safe disposal of waste, type of waste and their disposal • Type of power tools ,their power ratings and area of application • basic ergonomic principles as per applicability **Demonstration/ Practical (D/P): -** The skills will be developed and practiced while carrying out following trade related activities in a predictable and familiar working condition. • Fill structural execution works permits and work approval documents • Selection of PPEs and use them appropriately as per working need of façade installation works, handling, storing, stacking and shifting of materials, tools and equipment used for façade installation works • Selection of PPEs and use them appropriately as per working need of façade installation • Analysis of hazards involved in façade installation works • Identification of locations, situations/ circumstances, malpractices which can be hazardous for façade installation works • Selection of fire extinguisher based on classification of fire, standard practice of	

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		storing & stacking firefighting equipment/ materials at work locations • Disposal of waste materials as per their nature and effects on weather.	
	Total Duration 800:00 **Theory Duration :00** **Practical Duration 416:00**	**Unique Equipment Required:** Classroom Requirement Classroom of 30 students capacity, Black/White board, Projector/LED Monitor, Computer, Trade specific charts and other teaching aids Safety instruments Safety Helmet, Safety goggles , Safety shoes , Safety belt, Cotton gloves, Ear plugs , Reflective jackets, Dust mask, Fire Prevention kit, Barricade tape, Safety Tags	

Grand Total Course Duration: **800 Hours, 0 Minutes**

(This syllabus/ curriculum has been approved by ***Construction Skill Development Council of India)***

Trainer Prerequisites for Job role: "Foreman Facade Installation" mapped to Qualification Pack: "CON/Q1110, v1.0"

Sr. No.	Area	Details
1	**Description**	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack "CON/Q1110".
2	**Personal Attributes**	Aptitude for conducting training, and pre/ post work to ensure competent, employable candidates at the end of the training. Strong communication skills, interpersonal skills, ability to work as part of a team; a passion for quality and for developing others; well-organised and focused, eager to learn and keep oneself updated with the latest in the mentioned field
3	**Minimum Educational Qualifications**	ITI/12th standard pass
4a	**Domain Certification**	Trainer/Assessor- 50% in each NOS of Qualification Pack "CON/Q1110" & 80% overall , Lead trainer/Lead Assessors- 50% in each NOS of Qualification Pack "CON/Q1110" & 90% overall
4b	**Platform Certification**	Trainer/Assessor-80% in each NOS of Qualification Pack "MEP/Q0102" or "MEP/Q0104", Lead trainer/ Lead Assessors- 90% in each NOS of Qualification Pack "MEP/Q0101" or "MEP/Q0103"and overall 90%
5	**Experience**	i. Technical Degree holder with minimum three years of Field experience and preferably two years of teaching experience or, ii. In case of a Diploma Holder five years of field experience and preferably two years of teaching experience or, iii. In case of ITI/12th pass minimum eight years of field experience and preferably two years of teaching Experience.

CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role	Foreman Facade Installation
Qualification Pack	CON/Q1110
Sector Skill Council	Construction

Guidelines for Assessment

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 centre 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.
7. The trainee shall be provided with a chance to repeat the test to correct his procedures in case of improper performance, with a deduction of marks for each iteration.
8. After the certain number of iteration as decided by SSC the trainee is marked as fail, scoring zero marks for the procedure for the practical activity.
9. In case of successfully passing only certain number of 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.
10. Minimum duration of Assessment of each QP shall be of 4hrs/trainee.

				Marks Allocation	
Assessment outcomes	Assessment Criteria for outcomes	**Total Mark**	**Out Of**	**Theory**	**Skills Practical**
CON/N1130: Read & interpret specification, standards, and schematic working drawings for Façade Installation works	PC1. identify schematic drawing relevant to façade installation	**100**	5	2	3
	PC2. recognize symbols and abbreviations used in the schematic drawing		10	4	6
	PC3. read & interpret details, dimensions and location from relevant schematic working drawings		10	4	6
	PC4. read and understand all specification provided in the relevant drawing		5	2	3
	PC5. read and understand schedule for façade installation works		10	4	6
	PC6. read and understand operational standards of all relevant tools and equipments		10	4	6
	PC7. read and understand method statement for façade installation		10	4	6
	PC8. read, understand & follow manufactures specification for installation of panels in façade installation		5	2	3
	PC9. read and interpret job specification from drawings, notes and description		5	2	3
	PC10. read and interpret standards of work and required tolerance limit		5	2	3
	PC11. identify the material required for façade installation work from the specifications and drawings		10	4	6
	PC12. read and understand standard technical specification within scope of work		5	2	3
	PC13. carryout calculation for required quantity of material from schematic working drawing		10	4	6
		Total	**100**	**40**	**60**
CON/N1131: Check and ensure completion of preparatory works prior to installation of façades	PC1. prepare a detailed work plan for execution of façade work at construction site	**100**	10	4	6
	PC2. check that structure is designed to accommodate wall panels		5	2	3
	PC3. check and ensure setting out for façade work is as per the approved drawings		5	2	3
	PC4. check and ensure working platforms, hand rails and access stairs are safe for working		5	2	3
	PC5. check and ensure workplace is clear of debris and guard rails, safety nets & kerb boards are in place		5	2	3
	PC6. instruct & ensure that the material use for work is as per approved drawing		5	2	3
	PC7. check all tools and equipments for façade installation work are provided at the workplace		5	2	3

	PC8. prepare and mark a grid layout for installing the façade		5	2	3
	PC9. check the type of frame, panel material prior to façade installation work		10	4	6
	PC10. inspect and check the frames and panels are measured and cut as per approved drawing		10	4	6
	PC11. check that panels are not damaged, and replace panels which are not fit for installation		10	4	6
	PC12. maintain appropriate provisions for doors, windows, etc. as applicable to the facade		5	2	3
	PC13. estimate type, shape and quantity of panels required to install the facade		5	2	3
	PC14. check that suitable lifting equipment is in place at point of installation		5	2	3
	PC15. verify that openings for glazing are correctly sized and within tolerance		10	4	6
		Total	**100**	**40**	**60**
CON/N1132: Ensure execution façade installation works as per specifications and standard practices	PC1. ensure setting out of panels is as per the approved drawings	**100**	5	2	3
	PC2. ensure working platforms and access stairs are safe for working		5	2	3
	PC3. ensure workplace is clear of debris and guard rails, safety nets & kerb boards are in place		5	2	3
	PC4. ensure all tools, tackles, consumables ,materials and equipments are available prior to commencement of work		5	2	3
	PC5. ensure distance from outside of framing to outside of concrete footing is as per specification		5	2	3
	PC6. ensure the height of ground level below floor level and out is as per specifications around base to allow for installation work		5	2	3
	PC7. ensure the studs are straight and levelled for wall lining prior to installation		5	2	3
	PC8. ensure that wall wrap is fixed to the exterior wall framing prior to installation of panels		5	2	3
	PC9. ensure wall wrap is continuous around corners and installed horizontally		5	2	3
	PC10. ensure that all penetrations such as waste water pipes, etc. have been flashed to the building wrap using approved flexible flashing tape		5	2	3
	PC11. provide weep system as per drawing/requirements in the façade system		5	2	3
	PC12. ensure application of approved flexible flashing tape around openings prior to the installation of any joinery		5	2	3
	PC13. check and ensure panel joints are finished as per instructions		5	2	3

	PC14. ensure proper fixing of panels as per approved drawings		5	2	3
	PC15. check line, level & alignment of installed panels for façade installation works		5	2	3
	PC16. check and ensure uniform spacing between joints		5	2	3
	PC17. highlight errors to workers, suggest remedial action & demonstrate correct work processes as and when required		10	4	6
	PC18. carry out checks to ensure panel installation works are within specified tolerances limit and as per specified standards		10	4	6
		Total	**100**	**40**	**60**
CON/N7001: Plan, arrange and manage resources for execution of relevant work	PC1. determine quantum and nature of work under assigned activity	**100**	5	2	3
	PC2. calculate requirement of manpower for assigned activities		8	3	5
	PC3. submit manpower requirement to superiors		5	2	3
	PC4. allocate and extract work as per plan		8	3	5
	PC5. provide clear instructions to workmen for execution of work		8	3	5
	PC6. ensure optimum utilization of manpower resources		8	3	5
	PC7. record the daily labour attendance		8	3	5
	PC8. record the daily productivity report		8	3	5
	PC9. estimate quantity of assigned work		8	3	5
	PC10. estimate requirement for material, components and fixtures		8	3	5
	PC11. estimate equipment, tools and accessories required		8	3	5
	PC12. submit material, equipment and tool requirement to superiors		8	3	5
	PC13. allocate material , equipment and tools to workmen and extract the work as per plan		8	3	5
	PC14. provide clear instructions for optimized use of resources		8	3	5
		Total	**100**	**40**	**60**
CON/N8001: Work effectively in a team to deliver desired results at the workplace	PC1. pass on work related information/ requirement clearly to the team members	**100**	10	4	6
	PC2. inform co-workers and superiors about any kind of deviations from work		10	4	6
	PC3. address the problems effectively and report if required to immediate supervisor appropriately		20	8	12
	PC4. receive instructions clearly from superiors and respond effectively on same		10	4	6
	PC5. communicate to team members/subordinates for appropriate work technique and method		10	4	6

	PC6. seek clarification and advice as per requirement and applicability		10	4	6
	PC7. hand over the required material, tools tackles, equipment and work fronts timely to interfacing teams		15	6	9
	PC8. work together with co-workers in a synchronized manner		15	6	9
		Total	**100**	**40**	**60**
CON/N8002: Plan and organize work to meet expected outcomes	PC1. understand clearly the targets and timelines set by superiors	**100**	13	5	8
	PC2. plan activities as per schedule and sequence		10	4	6
	PC3. provide guidance to the subordinates to obtain desired outcome		13	5	8
	PC4. plan housekeeping activities prior to and post completion of work		8	3	5
	PC5. list and arrange required resources prior to commencement of work		10	4	6
	PC6. select and employ correct tools, tackles and equipment for completion of desired work		8	3	5
	PC7. complete the work with allocated resources		8	3	5
	PC8. engage allocated manpower in an appropriate manner		5	2	3
	PC9. use resources in an optimum manner to avoid any unnecessary wastage		5	2	3
	PC10. employ tools, tackles and equipment with care to avoid damage to the same		5	2	3
	PC11. organize work output, materials used, tools and tackles deployed,		10	4	6
	PC12. processes adopted to be in line with the specified standards and instructions		8	3	5
		Total	**100**	**40**	**60**
CON/N8003: Supervise, monitor and evaluate performance of subordinates at workplace	PC1. fix expected targets for the respective gang as per site requirements and allocate work to subordinates	**100**	15	6	9
	PC2. establish expected performance standards and expectations for the respective gang of workers to meet the desired outcomes		15	6	9
	PC3. inspect assigned work to the respected gang of workers through progressive checking		20	8	12
	PC4. observe and verify the work activities performed by the subordinates at the construction site		20	8	12
	PC5. monitor overall performance of subordinates on the designed measures to ensure quality requirements set by the concerned authority		15	6	9
	PC6. ensure adherence to the organizational policies and procedures for all relevant construction activities by the workmen subordinations		15	6	9
		Total	**100**	**40**	**60**

CON/N9002: Manage workplace for safe and healthy work environment	PC1. ensure proper housekeeping at workplace		5	2	3
	PC2. implement safe handling , stacking methods at workplace / store		5	2	3
	PC3. insure that health and safety plan is followed by all subordinates		5	2	3
	PC4. identify any hazard in workplace and notify them to appropriate authority		5	2	3
	PC5. ensure that all safety and protection installation are correctly placed & adequate		5	2	3
	PC6. ensure safe access is available at work place for movement of workers & materials		5	2	3
	PC7. ensure safe use of tools and tackles by the workmen as per applicability		5	2	3
	PC8. ensure appropriate use of following Personal Protective Equipment (PPE) as per applicability:		10	4	6
	• Head Protection (Helmets)				
	• Ear Protection				
	• Fall Protection				
	• Foot Protection				
	• Face and Eye Protection,				
	• Hand &Body Protection				
	• Respiratory Protection				
	PC9. maintain entrances & exit from confined spaces , excavated pits and other location in concurrence with safety parameters or instruction form safety personals.		5	2	3
	PC10. ensure organizational policies and procedures are followed for health , safety and welfare, in relation to:		10	4	6
	• methods of receiving or sourcing information				
	• dealing with accidents and emergencies associated with the work and environment				
	• reporting				
	• stooping work				
	• evacuation				
	• fire risks and safe exit procedures				

	PC11. follow procedures for accident recording and reporting as per organizational and statuary requirements		5	2	3
	PC12. ensure effective adherence to response to emergency procedures / protocols		7.5	3	4.5
	PC13. report any case of emergency / risks to the concern people at the construction site		7.5	3	4.5
	PC14. report any perceived risk hazards to the superiors / concerned EHS		7.5	3	4.5
	PC15. demonstrate the use of fire protection equipments for different type of fire hazard		7.5	3	4.5
	PC16. implement control measures to reduce risk & meet legal requirement as per organizational policies		5	2	3
		Total	**100**	**40**	**60**