



Model Curriculum

Mason Special Finishing

SECTOR: Construction
SUB-SECTOR: Real Estate and Infrastructure Construction
OCCUPATION: MASONRY
REF ID: CON/Q0107, V1.0
NSQF LEVEL: 4



Certificate

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: **'Mason Special Finishing'** QP No. **'CON/ Qo107 NSQF Level 4'**

Date of Issuance: **January 31st, 2016**

Valid up to: **May 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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Mason Special Finishing

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “Mason Special Finishing”, in the “Construction” Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Mason Special Finishing		
Qualification Pack Name & Reference ID	CON/Q0107, v1.0		
Version No.	1.0	Version Update Date	23-05-2017
Pre-requisites to Training	Preferably 8th standard with 8 years site experience in same occupation / 3 years site experience as a certified General Mason for trained worker		
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Gain insight in to job role of Mason special finishes:- Introduction to the roles and responsibilities of the job role, its career progression and expected outcome • Carry out surface finish like Grit wash / Exposed aggregate plastering, Stone-Crete, Cement wash , dry and wet cladding of stones on masonry surfaces : Selection of tools and material and carrying out surface finish like Grit wash / Exposed aggregate plastering, Stone-Crete, Cement wash , dry and wet cladding of stones on masonry surfaces • Carry out POP punning, POP plastering, decorative floor finishes and other special finishing on finished masonry surfaces using moulds : Selection of tools and material and carrying out POP punning, POP plastering, decorative floor finishes and other special finishing on finished masonry surfaces using moulds • Carry out mosaic, terrazzo, linoleum, vinyl, PVC and laminate wood floor finishes: Selection of tools and material and carrying out mosaic, terrazzo, linoleum, vinyl, PVC and laminate wood floor finishes • Work effectively in a team to deliver desired results at the workplace :- Introduction to team working and effective communication procedures to be followed at construction sites • Plan and organize work to meet expected outcomes :- Prioritizing activities and organising resources to meet desired outcome • Work according to personal health, safety and environment protocol at construction site: - Importance of health & safety aspect and measures to be followed at work site 		

This course encompasses 6 out of 6 National Occupational Standards (NOS) of “Mason Special Finishing” Qualification Pack issued by “Construction Skill Development Council of India”.

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	<p>Introduction</p> <p>Theory Duration (hh:mm) 08:00</p> <p>Practical Duration (hh:mm) 00:00</p>	<p>Understand the concept of:-</p> <ul style="list-style-type: none"> • Introduction to QP/NOS of Mason Special finishes • Role description/ functions of the job role • Expected personal attributes from the job role • Brief description about course content, mode of learning and duration of course • Future possible progression and career development provisions on completion of the course 	<ol style="list-style-type: none"> 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	<p>Carry out surface finish like Grit wash / Exposed aggregate plastering, Stone-Crete, Cement wash , dry and wet cladding of stones on masonry surfaces</p> <p>Theory Duration (hh:mm) 138:00</p> <p>Practical Duration (hh:mm) 116:00</p> <p>Corresponding NOS Code CON/N0120</p>	<p>Theory: -</p> <p>Understand the concept of:-</p> <ul style="list-style-type: none"> • sketches of the area / surface on which special finishing is to be done • standard specification of all finishing tools ,equipment and materials along with their care and maintenance of tools and equipment • different types of special finishes • process for application of various finishes as per the applicability for Industrial , commercial and residential purpose such as: <ul style="list-style-type: none"> ❖ Grit finish plastering ❖ Exposed aggregate plastering ❖ Stone-crete ❖ Cement wash etc. • techniques for surface preparation prior to application of surface finish as per the type of the surface • Methods and techniques of preparing bed mortar, cement slurry and cement paste required along with various stone chips, primer application etc. • various types of pigments, synthetic inorganic oxides ,their the basic properties and preparation technique as per color ,shade & pattern • methods of application of pattern according to designated finish and specification 	<ol style="list-style-type: none"> 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

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> • process of dry and wet cladding of stones <u>Demonstration/Practical:-</u> • Demonstrate levelling of surface with an appropriate float prior to application of grit wash • Demonstrate selection of appropriate aggregates for exposed plastering for rough and tough finishes • Demonstrate mixing of aggregates in required ratio for various finishes • Demonstrate application of grit wash on masonry surface • Demonstrate scrubbing of surface for obtaining exposed aggregate surface • Demonstrate selection of appropriate aggregates for stone creting • Demonstrate mixing of aggregates in required ratio for stone creting • Demonstrate selection and addition of right pigment for stone-creting • Demonstrate levelling and curing of surface after application of stone-crete • Demonstrate chiseling of surface for obtaining Ashlar stone finish • Demonstrate cleaning of surface for allocation of cement wash • Demonstrate selection and mixing of appropriate aggregates for cement wash • Demonstrate checks to ensure appropriate mix of synthetic inorganic oxide colors to the white cement in dry state to avoid patches of colors on the finished surface • Demonstrate application of undercoat of special cement primer and subsequent coats as per requirement • Demonstrate curing of surface and checks for precautions to avoid sunlight • Demonstrate mixing of Portland cement, sand, lime and add suitable structure like stone chips, colored concrete, etc. to create a textured and ornamental finishes using 	

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<p>plaster mouldings as per specification</p> <ul style="list-style-type: none"> • Demonstrate preparation and sprinkling of dry topping mix of color, stone dust and cement as per specification • Demonstrate preparation and sprinkling of base colour and topping dust as per specification over the surface at random locations to create slate type colour finish as per applicability • Demonstrate application of random colours and textures on the surface at random locations to create decorative colours / patterns • Demonstrate preparation of thin bed mortar using appropriate fillers and adhesives and laying of stone on masonry wall surfaces as per design specification/instructions • use fixed or embedded anchors or mechanical ties to fix stone on horizontal masonry surfaces for dry and wet cladding • Demonstrate checks to ensure sufficient gap for drainage between the wall and stones 	
3	<p>Carry out POP punning, POP plastering, decorative floor finishes and other special finishing on finished masonry surfaces using moulds</p> <p>Theory Duration (hh:mm) 44:00</p> <p>Practical Duration (hh:mm) 00:00</p> <p>OJT (hh:mm) 44:00</p> <p>Corresponding NOS Code CON/N0121</p>	<p>Theory: - Understand the concept of:-</p> <ul style="list-style-type: none"> • sketches of the area / surface on which special finishing is to be done • standard specification of all masonry tools ,equipment and materials along with their care and maintenance of tools and equipment • basic principles of measurement along with simple geometry that may be required for laying of stones • techniques / methods of plastering on surfaces including solid and fibrous plastering as per the requirements • methods required at the respective construction site for different types of special finishes involving both solid and fibrous plastering 	

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> • methods of preparing surfaces for applications of plaster such as drywall tapping, etc. • methods of coating through plaster and types of coats for application such as scratch coats, brown coats, white coats, etc. • basic properties and specifications of plastering materials and mixes used for the respective surface for better aesthetic / visual appeal • basic methods of application of pattern according to designated finish and specifications for the respective surfaces as per the client requirements • process of making medallions / POP designs in decorative patterns along with ornamental ceiling plaster <p><u>Demonstration/Practical:-</u> For solid plastering works on the various surfaces</p> <ul style="list-style-type: none"> • Demonstrate application of base layer of gypsum plaster prior to installation of plaster board • Demonstrate installation of layer of stiff foam for insulation as and when required • Demonstrate installation of supporting mesh framework on foam insulations and apply polymer based plaster to surface as per specification • measure, cut and fix plaster board to mesh framework with metal fasteners as per applicability • Demonstrate installation of supporting mesh framework on masonry surfaces as per applicability • Demonstrate installation of base layer of gypsum plaster to it as per specification • Demonstrate mixing and application of coats of pop plaster to walls ,ceilings and plasterboard surfaces & their levelling and smoothening 	

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> • Demonstrate application of specified decorative by adding decorative chips ,grits to final coat <p>For fibrous plastering works for tailor made surfaces</p> <ul style="list-style-type: none"> • Demonstrate preparation of specified fibrous plaster mix using sand, water, lime and ox-hair as a binding material (if applicable) in specified ratio as per the requirements/instructions • Demonstrate fixing of a mesh/lath over the fabric/masonry surface & spread rich plaster blend over the mesh / lath for intricate and ornamental finishes • Demonstrate making of medallions / POP designs in desired patterns for ornamental ceiling works around light fixtures and corners as per applicability • Demonstrate casting of fibrous plaster mix into appropriate shape to create ornamental designs <p>For Gypsum Plastering</p> <ul style="list-style-type: none"> • Demonstrate checks to ensure specified preparation of the surface receiving gypsum plaster • Demonstrate setting out of the wall layouts as per the approved shop drawings • Demonstrate preparation of specified mix of gypsum plaster for application • Demonstrate checks to ensure proper curing of finished surface <p>For special POP finishing in ornamental structures using POP moulds</p> <ul style="list-style-type: none"> • Demonstrate preparation of plaster moulds for ornamental finishing works on the masonry surface as per applicability • pour or spray a specified mixed plaster into the mould and ensure specified time for drying of the moulded pattern • Demonstrate application of specified curing agents to the surface to ensure 	

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<p>correctly formed patterns for ornamental works</p> <ul style="list-style-type: none"> • Demonstrate fixing of the moulded pattern on finishes masonry wall, floor and ceiling as per pattern/instructions 	
4	<p>Carry out mosaic, terrazzo, linoleum, vinyl, PVC and laminate wood floor finishes</p> <p>Theory Duration (hh:mm) 74:00</p> <p>Practical Duration (hh:mm) 00:00</p> <p>OJT (hh:mm) 74:00</p> <p>Corresponding NOS Code CON/N0122</p>	<p>Theory: - Understand the concept of:-</p> <ul style="list-style-type: none"> • sketches of the area / surface on which flooring to be done • standard specification of all flooring tools ,equipment and materials along with their care and maintenance of tools and equipment • basic principles of measurement along with simple geometry that may be required for flooring • _basic techniques / methods of flooring on surfaces • methods of preparing surfaces for applications of various decorative flooring • methods of various decorative flooring works like mosaic, terrazzo, linoleum, vinyl, PVC and laminate wood flooring • different type of adhesives and their application • basic properties and specifications of flooring materials used for various decorative flooring works • basic methods of application of pattern according to designated finish and • major types and techniques of flooring • method of calculation of material required for various decorative flooring works like mosaic, terrazzo, linoleum, vinyl, PVC and laminate wood flooring <p>Demonstration/Practical:- For mosaic flooring</p> <ul style="list-style-type: none"> • Demonstrate checks to ensure preparation of the surface of floor • Demonstrate marking as per design 	<p>**Since the demonstration/ practical training is being conducted on-site to get the required competencies the tools required will be acquirable at site.</p>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> • calculate the quantity of materials required based on method adopted if required • Demonstrate preparation and laying of a under coat layer of concrete in specified ratio and thickness • Demonstrate preparation of a base course of lime, marble & pozzolana material in specified ratio • Demonstrate cutting and fixing of baton strips as per requirement to form panels • Demonstrate cutting and fixing of tiles, stone or other material and place on the above layer as per design patterns and drawings • Demonstrate fixing of the broken tiles, marble pieces into base layer using stone roller • Demonstrate rubbing off surface to polish and smoothen the mosaic /terrazzo design surface • Demonstrate checks to ensure proper curing of floor for a specified period of time prior to use <p>For terrazzo flooring</p> <ul style="list-style-type: none"> • Demonstrate checks to ensure preparation of the surface of floor and make appropriate markings as per design • calculate the quantity of materials required based on method adopted if required • Demonstrate preparation and laying of a under coat layer of concrete in specified ratio and thickness • Demonstrate cutting and fixing of the baton strips as per requirement to form panels • Demonstrate mixing of epoxy mix with hardener and spread it within the strips as per applicability • Demonstrate preparation and spreading of an aggregate mix containing glass, marble, stone or chips with or without color pigment as per specification 	

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> • Demonstrate grinding and polishing of the terrazzo floor once its thoroughly dry • Demonstrate checks to ensure proper curing of floor for a specified period of time prior to use <p>For linoleum, vinyl & PVC flooring</p> <ul style="list-style-type: none"> • Demonstrate preparation of the surface receiving linoleum flooring as per the floor surface such as <ul style="list-style-type: none"> ❖ concrete floor ❖ wood floor ❖ preexisting linoleum/vinyl flooring • Demonstrate calculation of the quantity of materials required based on method adopted if required • Demonstrate smoothening of the under laying surface in case of concrete surface prior to flooring for preexisting linoleum/vinyl flooring, remove the old sheet and fix thin plywood as per applicability • Demonstrate measuring ,marking and cutting of the linoleum ,vinyl and PVC sheet as per the floor dimensions using appropriate tools • Demonstrate fixing of vinyl ,linoleum & PVC sheets on the floors using appropriate adhesives • Demonstrate use of appropriate rollers to release entrapped air from beneath the sheet and securely adhere it to floor • Demonstrate use of appropriate tools to finish the floor by applying sealant as per applicability <p>For laminate wood flooring</p> <ul style="list-style-type: none"> • calculate the quantity of materials required for laminate flooring if required • demonstrate checks to ensure surface receiving flooring is appropriately prepared • demonstrate planning of the layout by optimizing the planks used 	

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> demonstrate measuring and cutting of the planks using appropriate tools demonstrate installation of the laminate planks as per design pattern demonstrate cutting around doors and obstacles demonstrate installation of trims by nailing to the wall 	
5	<p>Work effectively in a team to deliver desired results at the workplace</p> <p>Theory Duration (hh:mm) 74:00</p> <p>Practical Duration (hh:mm) 00:00</p> <p>OJT (hh:mm) 74:00</p> <p>Corresponding NOS Code CON/N8001</p>	<p>Theory: -</p> <p>Understand the concept of :-</p> <ul style="list-style-type: none"> Method of oral and written communication skills with co-workers, trade seniors while handling and carrying out visual checks on materials, tools and equipment How to interpret scope of special finishes works, material/ tools handling by adhering to instructions or consulting with seniors Method of providing instruction to subordinates or reporting to seniors clearly and promptly Seek necessary support and complete assigned tasks within stipulated time duration Keep good relation and maintain good behaviour with co-workers <p>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</p> <ul style="list-style-type: none"> Selection of materials, tools or devices for defined purpose under special finishing and providing instructions to subordinates for the same. Handling of tools, equipment and materials for various types of special finishes works including efficiently communicating with co-workers for desired requirement as per specification Carrying out stone-crete finishing as a team to ensure optimum utilization of material and resources 	<ol style="list-style-type: none"> Classroom having seating requirement for 30 people. Projector Toilet/Urinals (Separate for gents and Ladies) Blackboard Trade specific charts and other teaching aids

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> Carrying out POP plastering works utilizing the effort of co-workers. Undertaking visual checks to assess the quality of material and check line, level and alignments of work, check weep systems etc. Provide information to sub ordinates and seniors in case of change because of inadequacy of deisgn 	
6	<p>Plan and organize work to meet expected outcomes</p> <p>Theory Duration (hh:mm) 74:00</p> <p>Practical Duration (hh:mm) 00:00</p> <p>OJT (hh:mm) 74:00</p> <p>Corresponding NOS Code CON/N8002</p>	<p>Theory: - Understand the concept of :-</p> <ul style="list-style-type: none"> To plan various types of finishing works on walls, floors, ceilings activities within defined scope of work Basic concept of productivity, sequence of working and implementation of safety and organizational norms while working Upkeep, storing and stacking methods of tools, glazing materials used for various types of finishing works on walls, floors, ceilings Requisition of resources, reporting for requirement of resources orally and in written to concerned authority - (T/P) <p>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</p> <ul style="list-style-type: none"> Selection of materials, tools or devices for defined purpose in an optimum manner Handling/organizing various tools, material, fixtures and device for various types of finishing works on walls, floors, ceilings Prioritize all works/ activities Planning grit wash, stone-crete, POP plastering and various flooring works as per scope and schedule. 	<ol style="list-style-type: none"> Classroom having seating requirement for 30 people. Projector Toilet/Urinals (Separate for gents and Ladies) Blackboard Trade specific charts and other teaching aids

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> Carrying out installation of various types of finishing works on walls, floors, ceilings by optimum utilization of material and resources Optimum use of resources while performing task Adherence to stipulated timelines for completion of various types of finishing works on walls, floors, ceilings 	
7	<p>Work according to personal health, safety and environment protocol at construction site</p> <p>Theory Duration (hh:mm) 24:00</p> <p>Practical Duration (hh:mm) 00:00</p> <p>OJT (hh:mm) 24:00</p> <p>Corresponding NOS Code CON/N9001</p>	<p>Theory: - Understand the concept :-</p> <ul style="list-style-type: none"> Types of hazards involved in construction sites Types of hazards involved in special finishes works Reporting procedures in case of hazards and accidents Emergency response system and evacuation procedures Safe working practices in case of façade installation work as per EHS guidelines Concept of: - <ol style="list-style-type: none"> First Aid process Use of fire extinguisher Classification of fires and fire extinguisher Safety drills Types and use of PPEs as per safety norms Basic ergonomic principles Safe Disposal of waste ,harmful and hazardous materials Safety awareness programs like tool box talks, mock drills Handling of construction materials, tools and tackles Statutory compliance requirement related to working at height <p>Demonstration/ Practical: - The skills will be developed and practiced while carrying out following trade related activities in a predictable and familiar working condition.</p> <ul style="list-style-type: none"> Selection of PPEs and use them appropriately as per working need 	<ol style="list-style-type: none"> Safety Helmets Face shield Overalls Knee pads Safety shoes Safety belts Safety harness Safety Gloves Safety goggles Particle masks Ear Plugs Reflective jackets Fire Extinguisher Fire prevention kit First Aid box Safety tags Safety Notice board

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<p>of various types of finishing works on walls, floors, ceilings and other surfaces,</p> <ul style="list-style-type: none"> • handling, storing, stacking and shifting of tools and equipment for special finishing work • Analysis of hazards involved in exposed grit/aggregate wash, cement washing, stone-creting, POP plastering and various flooring works and taking necessary steps or informing to seniors. • Identify hazards, risks, safety violations at construction sites and in various types of finishing works on walls, floors, ceilings • Demonstrate emergency and evacuation response procedures • Demonstrate safe work practices while performing various types of finishing works on walls, floors, ceilings • Identification of locations, situations/ circumstances, malpractices which can be hazardous for general or various types of finishing works on walls, floors, ceilings • Selection of fire extinguisher based on classification of fire, standard practice of storing & stacking firefighting equipment/ materials at work locations • Disposal of waste materials as per their nature and effects on weather 	
	<p>Total Duration</p> <p>Theory Duration 504:00</p> <p>Practical Duration 60:00</p>	<p>Infrastructure Classroom for theory and assessment with 30 study chairs ,Workshop/Mock-up yard for practical training and assessment ,Toilet/Urinals (Separate for gents and Ladies), 3 phase power supply points , Single phase power supply points, Fire extinguishers (mechanical foam, DCP, CO2 and sand buckets with stand), First aid kit, Tool box with lock and key</p> <p>PPEs Safety Helmets, Face shield, Overalls, Knee pads, Safety shoes, Safety belts, Safety harness, Safety Gloves, Safety goggles, Particle masks, Ear Plugs, Reflective jackets, Fire</p>	



Sr. No.	Module	Key Learning Outcomes	Equipment Required
		Extinguisher, Fire prevention kit, First Aid box, Safety tags, Safety Notice board	

Grand Total Course Duration: **600 Hours, 0 Minutes**

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



Trainer Prerequisites for Job role: “Mason Special Finishing” mapped to Qualification Pack: “CON/Q0107, 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/Q0107”.
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/12 th standard pass
4a	Domain Certification	Trainer/Assessor- 70% in each NOS of Qualification Pack “CON/Q0107” & 80% overall , Lead trainer/Lead Assessors- 70% in each NOS of Qualification Pack “CON/Q0107” & 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/12 th pass minimum eight years of field experience and preferably two years of teaching Experience.



CRITERIA FOR ASSESSMENT OF TRAINEES

<u>Job Role</u>	Mason Special Finishing
<u>Qualification Pack</u>	CON/Q0107
<u>Sector Skill Council</u>	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.

Assessment outcomes	Assessment Criteria for outcomes	Marks Allocation			
		Total Mark	Out Of	Theory	Skills Practical
CON/N0120: Carry out surface finish like Grit wash / Exposed aggregate plastering, Stone-Crete, Cement wash, dry and wet cladding of stones on masonry surfaces	PC1. level the surface with an appropriate float prior to application of grit wash	100	3	1	2
	PC2. select appropriate aggregates for exposed plastering for rough and tough finishes as per the aesthetic requirements		3	1	2
	PC3. mix the selected aggregates (cement, coarse aggregate like crushed natural stone chips, fine marble powder and water) in the appropriate ratio: • For Grit Wash Plaster appropriate ratio is 2.5:1:6 • For White Cement : Dolomite Power : Chips		9	3	6
	PC4. scrub the surface gently with a nylon brush or water to remove the cement on the top of the chips and to expose the aggregates		5	1	4
	PC5. select the appropriate aggregates for stone creting		3	1	2
	PC6. mix the selected aggregates in the appropriate ratio: • For Stone-crete approximate ratio is 1:1 • For White Cement: Coarse dolomite powder / quartz sand		6	2	4
	PC7. select the right pigments to be added for the desired shade as per the aesthetic appeal of the surface as per the requirements		3	1	2
	PC8. level and cure the surface to get the desired aesthetic looks after the application on the walls		4	1	3
	PC9. chisel the surface (if required) to give Ashlar stone finish		4	1	3
	PC10. clean the surface for application of cement wash		1.5	0.5	1
	PC11. select appropriate aggregates for cement wash and mix the aggregates in the appropriate ratio		3	1	2
	PC12. ensure appropriate mix of synthetic inorganic oxide colors to the white cement in dry state to avoid patches of colors on the finished surface		2.5	0.5	2
	PC13. apply undercoat of special cement primer (if required) on a surface which is too smooth		5	2	3

	PC14. apply coats on prepared pre-wetted walls using an appropriate brush / spray		3	1	2
	PC15. ensure proper curing of the surface with water		2.5	0.5	2
	PC16. ensure avoidance of direct sunlight as it may leave brush marks on the surface as the cement sets faster		2.5	0.5	2
	PC17. mix Portland cement, sand, lime and add suitable structure like stone chips, colored concrete, etc. to create a textured and ornamental finishes using plaster mouldings as per specification		6	2	4
	PC18. prepare and sprinkle dry topping mix of color, stone dust and cement as per specification and sprinkle evenly over the surface to create decorative finish		4	1	3
	PC19. prepare and sprinkle base color and topping dust as per specification over the surface at random locations to create slate type color finish as per applicability		4	1	3
	PC20. apply random colors and textures on the surface at random locations to create decorative colors/patterns		6	2	4
	PC21. prepare thin bed mortar using appropriate fillers and adhesives and lay stone on masonry wall surfaces as per design specification/instruction		5	1	4
	PC22. use fixed or embedded anchors or mechanical ties to fix stone on horizontal masonry surfaces for dry and wet cladding		9	3	6
	PC23. ensure sufficient gap for drainage between the wall and stones		6	2	4
		Total	100	30	70
CON/N0121: Carry out POP punning, POP plastering and other special finishing on finished masonry surfaces using moulds.	PC1. ensure that surface is clean and apply base layer of gypsum plaster over it prior to installing plasterboard	100	1.5	0.5	1
	PC2. install layer of stiff foam for insulation as and when required		2.5	0.5	2
	PC3. install supporting mesh framework on foam insulations and apply polymer based plaster to surface as per specification		3	1	2
	PC4. measure, cut and fix plaster board to mesh framework with metal fasteners as per applicability		2	1	1
	PC5. install supporting mesh framework on masonry surfaces as per applicability and apply base layer of gypsum plaster to it as per specification		4	1	3
	PC6. mix and apply coats of pop plaster to walls ,ceilings and plasterboard surfaces & level and smoothen it		4	1	3
	PC7. add decorative chips ,grits to final coat and apply for specified decorative finish		3	1	2

	PC8. prepare specified fibrous plaster mix using sand, water, lime and ox-hair as a binding material (if applicable) in specified ratio as per the requirements/instruction		6	2	4
	PC9. fix a mesh/lath over the fabric/masonry surface & spread rich plaster blend over the mesh / lath for intricate and ornamental finishes		8	2	6
	PC10. make medallions / POP designs in desired patterns for ornamental ceiling works around light fixtures and corners as per applicability		9	3	6
	PC11. cast fibrous plaster mix into appropriate shape to create ornamental designs		7	2	5
	PC12. ensure specified preparation of the surface receiving gypsum plaster		3	1	2
	PC13. set out the wall layouts as per the approved shop drawings		5	2	3
	PC14. prepare specified mix of gypsum plaster for application		4	1	3
	PC15. ensure proper curing of finished surface		4	1	3
	PC16. apply within level strips to ensure line and level surfaces		4	1	3
	PC17. prepare plaster moulds for ornamental finishing works on the masonry surface as per applicability		7	2	5
	PC18. pour or spray a specified mixed plaster into the mould and ensure specified time for drying of the moulded pattern		11	4	7
	PC19. apply specified curing agents to the surface to ensure correctly formed patterns for ornamental works		5	1	4
	PC20. fix the moulded pattern on finishes masonry wall, floor and ceiling as per pattern/instruction		7	2	5
		Total	100	30	70
CON/N0122: Carry out mosaic, terrazzo, linoleum, vinyl, PVC and laminate wood floor finishes	PC1. ensure preparation of the surface of floor and make appropriate markings as per design	100	3	1	2
	PC2. calculate the quantity of materials required based on method adopted if required		3	1	2
	PC3. prepare and lay a under coat layer of concrete in specified ratio and thickness		3	1	2
	PC4. prepare a base course of lime, marble & pozzolana material in specified ratio		3	1	2
	PC5. cut and fix baton strips as per requirement to form panels		4	1	3
	PC6. cut or break tiles, stone or other material and place on the above layer as per design patterns and drawings		4	1	3
	PC7. embed the broken tiles, marble pieces into base layer using stone roller		4	1	3

PC8. rub off surface to polish and smoothen the mosaic /terrazzo design surface	3	1	2
PC9. ensure proper curing of floor for a specified period of time prior to use	3	1	2
PC10. ensure preparation of the surface of floor and make appropriate markings as per design	3	1	2
PC11. calculate the quantity of materials required based on method adopted if required	3	1	2
PC12. prepare and lay a under coat layer of concrete in specified ratio and thickness	3	1	2
PC13. cut and fix baton strips as per requirement to form panels	4	1	3
PC14. mix epoxy mix with hardener and spread it within the strips as per applicability	3	1	2
PC15. prepare and spread an aggregate mix containing glass, marble, stone or c chips with or without color pigment as per specification	4	1	3
PC16. grind and polish the terrazzo floor once its thoroughly dry	7	2	5
PC17. ensure proper curing of floor for a specified period of time prior to use	3	1	2
PC18. prepare the surface receiving linoleum flooring as per the floor surface such as: <ul style="list-style-type: none"> • concrete floor • wood floor • pre existing linoleum/vinyl flooring 	3	1	2
PC19. calculate the quantity of materials required based on method adopted if required	2.5	0.5	2
PC20. smoothen the under laying surface in case of concrete surface prior to flooring	1.5	0.5	1
PC21. for preexisting linoleum/vinyl flooring, remove the old sheet and fix thin plywood as per applicability	2.5	0.5	2
PC22. measure ,mark and cut the linoleum ,vinyl and PVC sheet as per the floor dimensions using appropriate tools	3	1	2
PC23. fix vinyl ,linoleum & PVC sheets on the floors using appropriate adhesives	3	1	2
PC24. use appropriate rollers to release entrapped air from beneath the sheet and securely adhere it to floor	3	1	2
PC25. use appropriate tools to finish the floor by applying sealant as per applicability	1.5	0.5	1
PC26. calculate the quantity of materials required for laminate flooring if required	3	1	2
PC27. ensure surface receiving flooring is appropriately prepared	1.5	0.5	1

	PC28. plan the layout by optimizing the planks used		3	1	2
	PC29. measure and cut the planks using appropriate tools		3	1	2
	PC30. provide gap for expansion joint as per applicability		2.5	0.5	2
	PC31. install the laminate planks as per design pattern		3	1	2
	PC32. cut around doors and obstacles and install trims by nailing to the wall		4	1	3
		Total	100	30	70
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	7	2	5
	PC2. inform co-workers and superiors about any kind of deviations from work		7	2	5
	PC3. address the problems effectively and report if required to immediate supervisor appropriately		10	3	7
	PC4. receive instructions clearly from superiors and respond effectively on the same		7	2	5
	PC5. communicate to team members/subordinates for appropriate work technique and method		10	3	7
	PC6. seek clarification and advice as per the requirement and applicability		7	2	5
	PC7. hand over the required material, tools tackles, equipment and work fronts timely to interfacing teams		27	8	19
	PC8. work together with co-workers in a synchronized manner		27	8	19
		Total	100	30	70
CON/N8002: Plan and organize work to meet expected outcomes	PC1. understand clearly the targets and timelines set by superiors	100	7	2	5
	PC2. plan activities as per schedule and sequence		7	2	5
	PC3. provide guidance to the subordinates to obtain desired outcome		10	3	7
	PC4. plan housekeeping activities prior to and post completion of work		7	2	5
	PC5. list and arrange required resources prior to commencement of work		10	3	7
	PC6. select and employ correct tools, tackles and equipment for completion of desired work		10	3	7
	PC7. complete the work with allocated resources		10	3	7
	PC8. engage allocated manpower in an appropriate manner		10	3	7
	PC9. use resources in an optimum manner to avoid any unnecessary wastage		10	3	7
	PC10. employ tools, tackles and equipment with care to avoid damage to the same		7	2	5

	PC11. organize work output, materials used, tools and tackles deployed,		7	2	5
	PC12. processes adopted to be in line with the specified standards and instructions		7	2	5
		Total	100	30	70
CON/N9001: Work according to personal health, safety and environment protocol at construction site	PC1. identify and report any hazards, risks or breaches in site safety to the appropriate authority	100	7	2	5
	PC2. follow emergency and evacuation procedures in case of accidents, fires, natural calamities		7	2	5
	PC3. follow recommended safe practices in handling construction materials, including chemical and hazardous material whenever applicable		10	3	7
	PC4. participate in safety awareness programs like Tool Box Talks, safety demonstrations, mock drills, conducted at site		7	2	5
	PC5. identify near miss , unsafe condition and unsafe act		7	2	5
	PC6. 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)		10	3	7
	PC7. handle all required tools, tackles , materials & equipment safely		7	2	5
	PC8. follow safe disposal of waste, harmful and hazardous materials as per EHS guidelines		7	2	5
	PC9. install and apply properly all safety equipment as instructed		13	4	9
	PC10.follow safety protocol and practices as laid down by site EHS department		13	4	9
	PC11. collect and deposit construction waste into identified containers before disposal, separate containers that may be needed for disposal of toxic or hazardous wastes		7	2	5
	PC12.apply ergonomic principles wherever required		7	2	5
		Total	100	30	70