

Model Curriculum

QP Name:	**Interior Finisher** **Electives: Marble Laying**
QP Code:	**ICE/CON/Q0301-SI003**
Version:	**1.0**
NSQF Level:	**4**
Model Curriculum Version:	**1.0**

The Institution of Civil Engineers Society (ICES)
301-303, Suncity Trade Tower, Sector-21, Gurugram, Haryana || Email: ceo@iceskills.in

Table of Contents

Training Parameters 3
Program Overview 4
Training Outcomes: 4
Compulsory Modules: 5
Elective Modules: 6
Elective 3: Marble Laying 6
Module Details 7
Module 1: Introduction to the Construction Industry and the job role "Interior Finisher" 7
Module 2: Read and Interpret Drawings 8
Module 3: Workplace Safety and Health Compliance 9
Module 4: Environmental Protection and Emergency Preparedness 10
Module 5: Employability Skills (60 Hours) 11
Module 14: Surface Preparation for Marble Installation 13
Module 15: Measure and Cut Marble 14
Module 16: Marble Installation and Grouting 16
Module 17: Polish and Seal Marble Surfaces 18
On-the-Job Training 20
Annexure 21
Trainer Requirements 21
Assessor Requirements 22
Assessment Strategy 23
References 27
Glossary 27
Acronyms and Abbreviations 29

Training Parameters

Sector	Construction		
Sub-Sector	Real Estate and Infrastructure Construction		
Occupation	Finishing Works		
Country	India		
NSQF Level	4		
Aligned to NCO/ISCO/ISIC Code	NCO-2015/7131.0100, NCO-2015/7121.0100, NCO-2015/7112.0100, NCO-2015/7122.9900		
Minimum Educational Qualification and Experience	**S. No.**	**Academic/Skill Qualification (with Specialization - if applicable)**	**Required Experience (with Specialization - if applicable)**
	1	12th Grade pass	
	OR		
	2	10th Grade pass	2 years of Relevant Industry Experience
	OR		
	3	8th Grade pass	4 years of Relevant Industry Experience
	OR		
	4	Previous relevant Qualification of NSQF Level 3	3 years of Relevant Industry Experience
	OR		
	5	Previous relevant Qualification of NSQF Level 3.5	1.5 years of Relevant Industry Experience
Pre-Requisite License or Training	Not Applicable		
Minimum Job Entry Age	As per Govt. Norms		
Last Reviewed On	07-10-2025		
Next Review Date	07-10-2028		
NSQC Approval Date	07-10-2025		
QP Version	1.0		
Model Curriculum Creation Date	07-10-2025		
Model Curriculum Valid Up to Date	07-10-2028		
Model Curriculum Version	1.0		
Minimum Duration of the Course	300 Hours		
Maximum Duration of the Course	300 Hours		

Program Overview

This section summarises the end objectives of the program along with its duration.

Training Outcomes:

At the end of the program, the learner should have acquired the listed knowledge and skills to:

- Read & interpret construction drawings independently to extract dimensions, materials and layout references for finishing activities.
- Prepare surfaces for finishing works across painting, tiling, marble, ceiling, drywall or waterproofing applications.
- Perform high-quality finishing tasks (painting / tiling / marble / ceiling / waterproofing) meeting industry quality benchmarks and tolerances.
- Operate tools, equipment & power tools safely, ensuring work efficiency and longevity of materials.
- Maintain site safety, hygiene and environmental compliance with proactive hazard reporting and emergency response.
- Identify defects and execute corrective actions across finishing works.
- Coordinate with supervisors, coworkers and vendors to ensure timely and quality completion of tasks.
- Maintain documentation and work logs including consumption sheets, defect sheets and work completion checklists.
- Demonstrate professional behaviour, discipline and employability skills ensuring productivity and client satisfaction.

Compulsory Modules:

The table lists the modules and their duration corresponding to the Compulsory NOS of the QP

NOS and Module Details	Theory Duration (in Hours)	Practical Duration (in Hours)	On-the-Job Training Duration (Mandatory) (in Hours)	On-the-Job Training Duration (Recommended) (in Hours)	Total Duration (in Hours)
ICE/CON/N0301: Read and Interpret Construction and Design Drawings NOS Version: 1.0 NSQF Level: 4	**20:00**	**40:00**	**00:00**	**00:00**	**60:00**
Module 1: Introduction to the Construction Industry and the job role "Interior Finisher"	05:00	00:00	00:00	00:00	05:00
Module 2: Read and Interpret Drawings	15:00	40:00	00:00	00:00	55:00
ICE/CON/N9901: Implement Safe Work Practices and Environmental Stewardship at Construction Sites NOS Version: 1.0 NSQF Level: 4	**10:00**	**20:00**	**00:00**	**00:00**	**30:00**
Module 3: Workplace Safety and Health Compliance	05:00	10:00	00:00	00:00	15:00
Module 4: Environmental Protection and Emergency Preparedness	05:00	10:00	00:00	00:00	15:00
DGT/VSQ/N0102: Employability Skills (60 Hours) NOS Version No.: 1.0 NSQF Level: 4	**60:00**	**00:00**	**00:00**	**00:00**	**60:00**
Module 5: Employability Skills (60 Hours)	60:00	00:00	00:00	00:00	60:00
Total Duration	**90:00**	**60:00**	**00:00**	**00:00**	**150:00**

Elective Modules:

Elective 3: Marble Laying

NOS and Module Details	Theory Duration (in Hours)	Practical Duration (in Hours)	On-the-Job Training Duration (Mandatory) (in Hours)	On-the-Job Training Duration (Recommended) (in Hours)	Total Duration (in Hours)
ICE/CON/N0312: Prepare Surfaces for Marble Installation NOS Version: 1.0 NSQF Level: 4	**10:00**	**05:00**	**15:00**	**00:00**	**30:00**
Module 14: Surface Preparation for Marble Installation	10:00	05:00	15:00	00:00	30:00
ICE/CON/N0313: Measure and Cut Marble Using Advanced Tools NOS Version: 1.0 NSQF Level: 4	**05:00**	**10:00**	**15:00**	**00:00**	**30:00**
Module 15: Measure and Cut Marble	05:00	10:00	15:00	00:00	30:00
ICE/CON/N0314: Install Marble Slabs and Tiles NOS Version: 1.0 NSQF Level: 4	**10:00**	**35:00**	**15:00**	**00:00**	**60:00**
Module 16: Marble Installation and Grouting	10:00	35:00	15:00	00:00	60:00
ICE/CON/N0315: Polish and Seal Marble Surfaces using Epoxy Resins and Nano Coatings NOS Version: 1.0 NSQF Level: 4	**05:00**	**10:00**	**15:00**	**00:00**	**30:00**
Module 17: Polish and Seal Marble Surfaces	05:00	10:00	15:00	00:00	30:00
Total Duration	**30:00**	**60:00**	**60:00**	**00:00**	**150:00**

Module Details

Module 1: Introduction to the Construction Industry and the job role "Interior Finisher"

Mapped to ICE/CON/N0301, v1.0

Terminal Outcomes:

- Explain the importance of Construction Industry.
- Describe the responsibilities and career opportunities of an "Interior Finisher".

Duration: 05:00	**Duration: 00:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Define the Construction Industry. • Describe the main sectors within the construction industry and their impact on infrastructure development. • Discuss the scope of employment in the Construction Industry. • Explain the role and responsibilities of an Interior Finisher. • Discuss the skills and qualifications necessary for a career as an Interior Finisher. • Identify various career opportunities available for an Interior Finisher.	
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
NA	

Module 2: Read and Interpret Drawings

Mapped to ICE/CON/N0301, v1.0

Terminal Outcomes:

- Identify and interpret drawing types and standard symbols.
- Extract dimensional information from drawings.
- Interpret layouts, sections and elevations.
- Interpret material specifications and technical requirements.
- Apply drawing details on site.

Duration: 15:00	**Duration: 40:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Explain types of drawings (architectural, MEP, finishing) • Understand Symbols & Legends • Understand Title block, scale, revision number, detail markers • Explain Dimensioning and Scaling Principles • Explain Extracting Layout Details (Tile and marble layout, Ceiling grid & service cutout, Waterproofing coverage limits and slopes) • Read data sheets and specification text • Explain Compatibility of materials and Manufacturer recommendations and tolerances • Explain Quality and Safety Awareness	• Describe drawing types, scale and references • Demonstrate dimension markers and tolerance limits • Describe how to validate dimensions using scale • Perform the task on recording measured quantities for site use • Demonstrate how to mark reference lines and grid lines • Describe how to transfer ceiling layout and tile/marble patterns to mock-up surface • Mark paint boundaries and waterproofing elevation levels • Perform the usages of Instruments Accurately (Laser level for horizontal alignment, Spirit level for vertical checks, Measuring tape for dimensional transfer) • Describe how to maintain measurement logs
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Relevant Project Drawings	

Module 3: Workplace Safety and Health Compliance

Mapped to ICE/CON/N9901, v1.0

Terminal Outcomes:

- Explain workplace hazards and safety measures in construction.
- Demonstrate the use of personal protective equipment (PPE) and emergency response procedures.

Duration: 05:00	**Duration: 10:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Explain the importance of Safety, Health and Environment (SHE) guidelines in maintaining a safe workplace. • Describe how company policies help in ensuring safety and compliance on construction sites. • Explain the correct procedure for reporting safety incidents or workplace hazards. • Describe the reporting structure for safety concerns within a construction site. • Identify the key personnel responsible for workplace safety, such as the safety officer and site engineer. • Explain the roles and responsibilities of the safety officer in maintaining site safety. • List different types of construction hazards, including chemical, physical and ergonomic risks. • Describe the potential impact of construction hazards on workers' health and safety. • Discuss the correct use of personal protective equipment (PPE) such as helmets, gloves, safety boots and harnesses. • Explain how to properly maintain PPE to ensure its effectiveness and durability.	• Show the process to identify common construction site hazards, including falling objects, slippery surfaces and electrical risks. • Demonstrate the process of evaluating potential risks associated with workplace hazards. • Show how to report identified hazards to a supervisor or safety officer using the correct reporting procedures. • Demonstrate the proper use and maintenance of personal protective equipment (PPE), including helmets, gloves, safety boots and harnesses. • Show the ability to follow safety signage and barricading instructions to avoid restricted or hazardous areas. • Demonstrate safe lifting techniques and the proper use of lifting tools to minimize strain and prevent injuries. • Demonstrate proper personal hygiene practices, including the use of clean drinking water and designated rest areas. • Show how to recognize and report health symptoms such as respiratory issues or heatstroke to the designated authority. • Demonstrate safe handling and disposal procedures for hazardous materials such as asbestos and chemicals to ensure workplace safety.
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Safety helmets, gloves, safety boots, safety harnesses, high-visibility vests, safety goggles, ear protection, dust masks, fire extinguishers, first aid kits, emergency response charts, barricading tape, safety cones, hazard signage, lifting belts, lifting tools such as pulleys and ropes, spill control kits, asbestos handling kits, chemical-resistant gloves, chemical spill absorbents, lockout/tagout (LOTO) kits, electrical insulating mats, hand wash stations and waste disposal bins for hazardous materials.	

Module 4: Environmental Protection and Emergency Preparedness

Mapped to ICE/CON/N9901, v1.0

Terminal Outcomes:

- Describe sustainable construction practices and waste management techniques.
- Explain emergency preparedness measures for fire, chemical spills and natural disasters.

Duration: 05:00	**Duration: 10:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Explain the importance of first aid in construction site safety. • Describe basic first aid procedures for common workplace injuries such as cuts, burns and fractures. • Identify the steps to take in case of a fire emergency. • Explain how to use fire extinguishers and other firefighting equipment. • Describe the role of emergency response teams in handling accidents and fires. • Explain the importance of environmental regulations in construction work. • Describe dust control measures used to minimize air pollution on construction sites. • Discuss proper waste disposal techniques for hazardous and non-hazardous materials. • Identify water conservation methods used in construction activities. • Explain the impact of poor environmental practices on health and safety. • Describe the correct procedures for handling and using construction tools safely. • List the common hand tools and power tools used in interior finishing work. • Explain the risks associated with improper use of construction equipment. • Describe safety precautions to follow while using hand tools and power tools. • Discuss the importance of regular maintenance and inspection of tools to prevent accidents.	• Demonstrate the correct way to prevent spills of construction materials and chemicals. • Show how to properly segregate biodegradable and non-biodegradable waste for recycling and disposal. • Demonstrate water conservation practices while performing construction activities. • Show how to follow energy-saving protocols at a construction site. • Identify emergency alarms and evacuation routes at a construction site. • Demonstrate the correct use of firefighting equipment, such as fire extinguishers and sand buckets. • Show how to assist in basic first aid procedures for minor injuries. • Demonstrate the correct method for performing CPR in an emergency.
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
First aid kits, gloves, fire extinguishers (ABC, CO_2, foam), sand buckets, fire blankets, emergency alarm systems, evacuation maps, color-coded waste bins, spill control kits, dust suppression tools such as water sprayers and dust nets, hand tools ,power tools	

Module 5: Employability Skills (60 Hours)

Mapped to DGT/VSQ/N0102, v1.0

Duration (in hours): 60:00

Key Learning Outcomes

After completing this programme, participants will be able to:

Introduction to Employability Skills:

1. Discuss the Employability Skills required for jobs in various industries.
2. List different learning and employability-related GOI and private portals and their usage.

Constitutional values - Citizenship:

3. Explain the constitutional values, including civic rights and duties, citizenship, responsibility towards society and personal values and ethics such as honesty, integrity, caring and respecting others that are required to become a responsible citizen.
4. Show how to practice different environmentally sustainable practices.

Becoming a Professional in the 21st Century:

5. Discuss the importance of relevant 21st-century skills.
6. Exhibit 21st-century skills like Self-Awareness, Behavior Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn etc. in personal or professional life.
7. Elucidate the appropriate code of conduct.

Basic English Skills:

8. Show how to use basic English sentences for everyday conversation in different contexts, in person and over the telephone.
9. Read and interpret text written in basic English.
10. Write a short note/paragraph / letter/e -mail using basic English.

Career Development & Goal Setting:

11. Discuss the difference between job and career.
12. Create a career development plan with well-defined short- and long-term goals.

Communication Skills:

13. Elucidate the importance of communication and professional communication.
14. Explain the importance of following verbal and non-verbal communication etiquette in various settings.
15. Elucidate the process of interacting with reporting superiors regarding job order, work output requirements, targets, performance indicators and incentives.
16. Discuss how effective coordination ensures the timely completion of tasks in accordance with quality standards.
17. Describe the steps involved in ensuring the timely resolution of problems, complaints and delays through coordination with relevant personnel and superiors.
18. Determine the role of active communication and respect in achieving a smooth workflow and resolving work standards and quality-related concerns with personnel and superiors.
19. Explain the significance of maintaining appropriate documentation concerning completed work schedules as per organizational requirements.
20. Elucidate the importance of prioritizing teamwork and supporting team members in achieving shared goals.

Diversity & Inclusion:

21. Describe the recommended practices for preventing sexual harassment, physical and verbal abuse and the objectification of women in the workplace.
22. Discuss the appropriate safety precautions to follow while utilizing transportation facilities and during night trips, particularly concerning women's safety.
23. Elucidate the process for escalating issues related to abuse and sexual harassment in the workplace according to the POSH Act and organizational procedures.
24. Determine how to effectively educate co-workers on women's rights and the importance of showing respect to all genders, including persons with disabilities.

Financial and Legal Literacy:

25. Outline the importance of selecting the right financial institution, product and service.
26. Overview how to carry out offline and online financial transactions, safely and securely.
27. List the common components of salary and compute income, expenditure, taxes, investments etc.
28. Discuss the legal rights, laws and aids.
29. Elucidate the purchase, inspection, indenting and recordkeeping procedure for stores.

Essential Digital Skills:

30. Describe the role of digital technology in today's life.
31. Overview how to operate digital devices and use the associated applications and features, safely and securely.
32. Discuss the significance of displaying responsible online behaviour while browsing, using various social media platforms, e-mails, etc., safely and securely.
33. Create sample word documents, excel sheets and presentations using basic features.
34. utilize virtual collaboration tools to work effectively.

Entrepreneurship:

35. Explain the types of entrepreneurships and enterprises.
36. Discuss how to identify opportunities for potential business, sources of funding and associated financial and legal risks with its mitigation plan.
37. Describe the 4Ps of Marketing-Product, Price, Place and Promotion and apply them as per requirement.
38. Create a sample business plan, for the selected business opportunity.
39. Describe the best practices for leading teams.
40. Explain the 5S Standards and their implementation for organize the workplace and create a productive work environment.
41. Explain how to manage clients, contractors, subordinates and labourers.

Customer Service:

42. Explain the importance of implementing appropriate hygiene, grooming standards and professional dress code at work to cater to different types of customers.
43. Elucidate the significance of practicing and encouraging active listening for effective communication with both customers and co-workers.
44. Discuss the methods used to ensure effective probing of customers to identify their needs and expectations.
45. Describe the strategies for maintaining effective communication with customers, keeping them informed regarding any issues and developments involving them.
46. Determine the steps involved in identifying and addressing customer dissatisfaction and complaints promptly and effectively.
47. Explain the importance of being fair and firm with staff to achieve work objectives and describe leave and attendance management.
48. Explain the importance of upskilling self and staff for continuous improvement.

Getting Ready for apprenticeship & Jobs:

49. Create a professional Curriculum Vitae (CV)
50. Use various offline and online job search sources such as employment exchanges, recruitment agencies and job portals respectively.
51. Discuss the significance of maintaining hygiene and confidence during an interview.
52. Elucidate how to give a personal introduction and present oneself.
53. Perform a mock interview.
54. List the steps for searching and registering for apprenticeship opportunities.

Module 14: Surface Preparation for Marble Installation

Mapped to ICE/CON/N0312, v1.0

Terminal Outcomes:

- Explain methods for inspecting and preparing surfaces before marble installation.
- Demonstrate techniques for levelling and priming surfaces for marble work.

Duration: 10:00	**Duration: 05:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Explain different types of surfaces (e.g., concrete, wood, drywall) and their preparation needs. • Describe the properties of marble and how different surfaces interact with adhesives and bonding agents. • Discuss various cleaning techniques, including the use of solvents, detergents and chemical agents. • List essential tools for leveling and smoothing surfaces, such as trowels, sanders and leveling compounds. • Identify methods for detecting cracks, holes and uneven areas that may affect marble installation. • Explain why surface stability, smoothness and leveling are critical for proper marble alignment. • Describe different types of primers and bonding agents and their compatibility with various surfaces. • Explain the correct application techniques for primers and bonding agents to ensure proper adhesion. • Discuss the drying and curing times of bonding agents and how environmental factors affect them. • Describe safety precautions when handling cleaning agents, leveling compounds and bonding materials. • Explain methods for protecting surrounding areas during surface preparation. • Discuss quality standards for a well-prepared surface, including smoothness, stability and uniformity.	• Demonstrate how to identify contaminants like dirt, grease and old adhesives on a surface. • Show how to clean surfaces using appropriate solutions, tools and techniques. • Demonstrate how to ensure the work area is completely clean, dry and debris-free. • Show how to protect surrounding surfaces using drop cloths, masking tape or barriers. • Demonstrate how to check a surface for cracks, unevenness or defects. • Show how to use tools like leveling compounds, trowels or sanders to smooth the surface. • Demonstrate how to fill cracks and holes using suitable fillers to create a uniform surface. • Show how to inspect the surface after leveling to ensure it is stable and defect-free. • Demonstrate how to select the correct primer or bonding agent based on surface type and marble specifications. • Show how to apply primers or bonding agents using brushes, rollers or sprayers. • Demonstrate how to follow manufacturer guidelines for drying and curing primers or bonding agents. • Show how to inspect the surface after primer application to confirm uniform coverage and proper adhesion.
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Measuring tapes, spirit levels, straight edges, trowels, sanders, grinders, leveling compounds, crack fillers, bonding agents, primers, cleaning solutions, sponges, cloths, drop cloths, masking tape, brushes, rollers, sprayers, safety gloves, goggles, dust masks.	

Module 15: Measure and Cut Marble

Mapped to ICE/CON/N0313, v1.0

Terminal Outcomes:

- Explain measurement and marking techniques for marble slabs and tiles.
- Demonstrate accurate marking methods to ensure precision in cutting.

Duration: 05:00	**Duration: 10:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Explain the properties of marble, including density, hardness and their impact on the cutting process. • Describe the different types of measurement tools such as laser measuring devices, 3D scanners and digital calipers used for marble measurement. • Explain the principles of precise measurement techniques for marking cutting lines on marble slabs. • Describe marking tools like chalk lines, pencils and markers and their importance in achieving accuracy. • Discuss methods for verifying measurements against specifications to ensure precision. • Explain the significance of calibration and alignment of measurement devices before marking marble. • Identify common errors in marble measurement and marking and methods to prevent them. • Explain the importance of proper positioning and handling of marble before marking. • Describe safety precautions while handling marble slabs to prevent breakage or workplace accidents. • List the types of cutting tools used for marble cutting. • Explain the types and functions of advanced cutting tools such as laser cutters, waterjet cutters and diamond blade saws. • Describe the principles of cutting marble with precision, including speed, pressure and alignment control. • Explain the procedures for setting up and calibrating advanced cutting tools before use.	• Show how to use advanced measuring tools like laser measuring devices, 3D scanners or digital calipers to measure marble slabs. • Demonstrate accurate marking of measurement points and cutting lines on marble using appropriate marking tools. • Show how to verify measurements against specifications and adjust if necessary before proceeding with the cutting process. • Demonstrate the alignment and calibration of measuring tools to ensure proper readings before marking. • Show how to handle and position marble slabs securely to facilitate easy and accurate marking. • Demonstrate the safe use of measuring and marking tools while preparing marble for cutting. • Show how to identify and correct errors in measurements or markings to avoid inaccurate cuts. • Demonstrate standard safety protocols for handling large or fragile marble slabs. • Show how to select and set up the appropriate cutting tool based on marble type and thickness. • Demonstrate the calibration and alignment of cutting tools such as laser cutters and waterjet cutters for accurate operation. • Show how to execute marble cutting using advanced tools while maintaining precision and control. • Demonstrate the inspection of cut marble for accuracy in dimensions and smoothness of edges. • Show how to use finishing tools like grinders or polishers to smooth rough edges as required. • Demonstrate the process of cleaning cut marble pieces to remove dust, debris or residue after the cutting process. • Show how to handle, store and transport cut marble pieces properly to avoid damage.

• Discuss methods for supporting marble during cutting to prevent shifting or breakage. • Describe safety precautions and protective measures while operating marble cutting equipment. • Explain the process of inspecting cut marble for accuracy, dimensions and surface smoothness. • Describe different finishing tools such as grinders and polishers and their role in edge finishing. • Explain the importance of cleaning marble after cutting to remove dust and debris. • Discuss best practices for storing and transporting cut marble to prevent damage. • Explain common troubleshooting techniques for fixing errors in measurement or cutting. • Describe the maintenance requirements for advanced cutting tools to ensure consistent performance	• Demonstrate how to identify and correct cutting errors by adjusting tool settings or refining cutting techniques.

Classroom Aids
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films
Tools, Equipment and Other Requirements
Measuring tapes, laser measuring devices, 3D scanners, digital callipers, chalk lines, pencils, markers, spirit levels, straight edges, clamps, workbenches, diamond blade saws, laser cutters, waterjet cutters, bridge saws, handheld grinders, angle grinders, wet saws, polishers, sanding pads, buffing wheels, gloves, goggles, dust masks and ear protection.

Module 16: Marble Installation and Grouting

Mapped to ICE/CON/N0314, v1.0

Terminal Outcomes:

- Explain the selection criteria for adhesives based on marble type and surface conditions.
- Demonstrate correct adhesive application techniques for secure marble fixing.

Duration: 10:00	**Duration: 35:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Explain the types of adhesives suitable for different marble and tile types, including their properties and applications. • Describe the methods for mixing adhesives to achieve the correct consistency for strong bonding. • Explain the principles of surface preparation, including cleaning, leveling and priming to ensure optimal adhesion. • Describe different adhesive application techniques and tools such as trowels, spreaders and notched blades. • Explain the importance of following manufacturer guidelines for adhesive application, bonding time and curing. • Identify common challenges in adhesive selection and application and methods to overcome them. • Explain the impact of environmental conditions such as temperature and humidity on adhesive performance. • Describe safety measures for handling adhesives, including protective gear and proper ventilation. • Explain quality control checks to ensure proper adhesive application before installing marble slabs or tiles. • Explain the methods for positioning and aligning marble slabs or tiles to match design layouts. • Describe the role of spacers in maintaining consistent grout joints and alignment. • Explain the techniques for pressing and securing marble slabs or tiles to prevent shifting during installation. • Describe tools used for leveling and ensuring even tile or slab placement. • Explain the importance of regular	• Show how to select the appropriate adhesive based on marble or tile type and installation surface. • Demonstrate the correct process for mixing adhesives to achieve the right consistency for bonding. • Show how to prepare a surface for marble or tile installation, including cleaning, leveling and priming. • Demonstrate the correct application of adhesive using appropriate tools such as trowels or spreaders. • Show how to ensure even distribution of adhesive to achieve strong bonding. • Demonstrate how to follow manufacturer guidelines for adhesive application, bonding and curing times. • Show how to identify and correct errors in adhesive application before proceeding with installation. • Demonstrate safety protocols for handling adhesives, including the use of protective gear. • Show how to conduct quality checks to verify the adhesive application before tile or slab installation. • Show how to position and align marble slabs or tiles according to the design layout. • Demonstrate the correct use of spacers to maintain consistent grout joints and proper alignment. • Show how to press and secure marble slabs or tiles to achieve a strong bond and prevent shifting. • Demonstrate how to check and adjust alignment during installation using leveling tools. • Show how to prepare grout mixtures and apply them evenly between marble tiles or slabs. • Demonstrate the process of removing excess grout from marble surfaces to ensure a clean finish.

alignment checks and adjustments during installation. • Describe the different types of grout and their applications for marble installations. • Explain the process of preparing and applying grout to ensure durable and visually appealing joints. • Describe the methods for cleaning excess grout from marble surfaces to achieve a professional finish. • Explain the curing process of grout and its impact on final installation strength. • Describe the process of inspecting finished installations for stability, alignment and quality.	• Show how to allow grout to cure properly according to manufacturer guidelines. • Demonstrate how to inspect the installation for stability, proper alignment and quality standards. • Show how to identify and fix common installation defects, such as uneven surfaces or misaligned tiles.
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Adhesives (thin-set mortar, epoxy, polyurethane, cement-based, acrylic adhesives), notched trowels, spreaders, mixing paddles, measuring cups, sanders, primers, levelling compounds, solvents, brushes, sponges, gloves, masks, goggles, spirit levels, straight edges, marble slabs/tiles, spacers, rubber mallets, tile cutters, grout (cement-based, epoxy, sanded/unsanded), grout floats, sealants and cleaning materials.	

Module 17: Polish and Seal Marble Surfaces

Mapped to ICE/CON/N0315, v1.0

Terminal Outcomes:

- Demonstrate marble polishing techniques using mechanical tools.
- Explain different methods for achieving a high-gloss or matte finish.

Duration: 05:00	**Duration: 10:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Explain the purpose and benefits of marble polishing in enhancing durability and aesthetic appeal. • Describe the different types of polishing compounds and their effects on various marble surfaces. • Explain the step-by-step process of marble polishing, including surface assessment and compound selection. • Describe the tools and machines used for polishing and how they impact the final finish. • Explain the importance of controlling polishing pressure and speed to avoid surface damage. • Describe the role of buffing in achieving a high-gloss finish on marble surfaces. • Explain the effects of environmental factors such as temperature and humidity on the polishing process. • Describe health and safety precautions when handling polishing compounds and operating machines. • Explain the criteria for assessing the quality of a polished marble surface. • Explain the purpose of sealing marble surfaces and how it enhances durability. • Describe the different types of marble sealants, including epoxy resins and nano coatings. • Explain the steps for preparing a marble surface before applying a sealant. • Describe the proper techniques for applying sealants evenly without streaks or uneven coverage. • Explain the drying and curing times for different sealants and their impact on marble surfaces. • Describe how environmental factors (e.g., humidity, temperature) affect	• Show how to assess the surface condition of marble to determine the required level of polishing. • Demonstrate how to choose the appropriate polishing compound based on marble type and desired finish. • Show how to apply polishing compounds evenly using the correct tools or machines. • Demonstrate the use of polishing machines and hand tools to achieve uniform surface polishing. • Show how to monitor the polishing process to prevent over-polishing or surface damage. • Demonstrate how to buff the marble surface effectively to enhance its natural shine. • Show how to inspect a polished surface for uniformity, gloss and smoothness. • Demonstrate safety procedures when working with polishing machines and chemicals. • Show how to select the appropriate sealant based on marble type and environmental exposure. • Demonstrate how to clean and prepare a marble surface before applying a sealant. • Show how to apply sealant evenly using a brush, roller or spray. • Demonstrate how to monitor the drying process and ensure proper curing of the sealant. • Show how to inspect a sealed surface for complete coverage and proper adhesion. • Demonstrate safe handling and application of marble sealants. • Show how to clean sealed marble surfaces using appropriate techniques and cleaning agents. • Demonstrate how to educate clients on proper marble maintenance to preserve surface quality. • Show how to assess when a marble surface requires resealing based on wear and environmental exposure.

the sealing process. • Explain safety precautions when working with marble sealants to prevent health hazards. • Describe best practices for maintaining sealed marble surfaces, including cleaning and periodic resealing. • Explain the signs that indicate when a marble surface requires resealing or additional maintenance.	
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Polishing compounds (diamond abrasives, oxalic acid, tin oxide), polishing pads, buffing wheels, hand polishers, mechanical polishing machines, microfiber cloths, sealants (penetrating sealers, topical coatings, epoxy resins, nano coatings), application tools (brushes, rollers, sprayers), cleaning agents, curing timers, surface preparation tools, pH-neutral cleaners, inspection tools and protective gear such as gloves, masks and goggles.	

On-the-Job Training

Mapped to Interior Finisher, (Marble Laying) v 1.0

All the On-the-Job Training Program must be conducted only at On-Site of relevant Industry. The details mentioned below are NOS wise Terminal Outcomes of OJT Period.

ICE/CON/N0312	**Prepare Surfaces for Marble Installation**
Mandatory OJT duration (in Hours)	**15:00**
Terminal Outcomes:	
During the OJT period, the candidate will be able to: • Inspect marble substrate for levelling and stability requirements. • Prepare substrate with primers and levelling compounds to support heavy slabs. • Protect neighbouring finishes before starting marble work. • Confirm curing and readiness before marble placement.	
ICE/CON/N0313	**Measure and Cut Marble Using Advanced Tools**
Mandatory OJT duration (in Hours)	**15:00**
Terminal Outcomes:	
During the OJT period, the candidate will be able to: • Measure and mark cutting lines on marble slabs using laser/3D measuring tools. • Cut marble using waterjet cutters, bridge saws or diamond blade cutters safely and precisely. • Smooth and polish cut edges to match finish requirements. • Inspect finished pieces for dimensional tolerance and surface quality.	
ICE/CON/N0314	**Install Marble Slabs and Tiles**
Mandatory OJT duration (in Hours)	**15:00**
Terminal Outcomes:	
During the OJT period, the candidate will be able to: • Apply appropriate adhesive bed thickness for marble slab fixing. • Position and align marble pieces using wedges, suction cups and tapping tools. • Apply grout for marble joints and remove residue without scratching. • Conduct alignment, levelling and stability checks.	
ICE/CON/N0315	**Polish and Seal Marble Surfaces using Epoxy Resins and Nano Coatings**
Mandatory OJT duration (in Hours)	**15:00**
Terminal Outcomes:	
During the OJT period, the candidate will be able to: • Polish marble using grinding pads and polishing compounds to achieve high-gloss or matte finish. • Apply sealants (epoxy/nano coating) evenly to protect marble against stains and moisture. • Inspect surface gloss and uniformity using light reflection tests. • Recommend maintenance schedule to the client.	

Annexure

Trainer Requirements

Minimum Educational Qualification	Specialization	Relevant Industry Experience		Preferable Training Experience	
		Years	Specialization	Years	Specialization
Post Graduation	Civil Engineering	2	Site Execution (Civil Work)	1	Site Execution (Civil Work)
OR					
Graduation	Civil Engineering	4	Site Execution (Civil Work)	1	Site Execution (Civil Work)
OR					
Diploma	Civil Engineering	6	Site Execution (Civil Work)	1	Site Execution (Civil Work)
OR					
12th Grade Pass	Relevant Trade	10	Site Execution (Civil Work)	1	Site Execution (Civil Work)
OR					
ITI	Relevant Trade	10	Site Execution (Civil Work)	1	Site Execution (Civil Work)

Trainer Certification	
Domain Certification	**Platform Certification**
Recommended that the Trainer is certified for the Job Role: *"Interior Finisher (Marble Laying)"*, mapped to the Qualification Pack: "ICE/CON/Q0301-SI003, v1.0". The minimum accepted score is 80%.	Recommended that the Trainer is certified for the Job Role: *"Trainer (VET and skills)"*, mapped to the Qualification Pack: "MEP/Q2601, v3.0". The minimum accepted score is 80%.

Assessor Requirements

Minimum Educational Qualification	Specialization	Relevant Industry Experience		Preferable Training Experience	
		Years	Specialization	Years	Specialization
Post Graduation	Civil Engineering	2	Site Execution (Civil Work)	1	Site Execution (Civil Work)
OR					
Graduation	Civil Engineering	4	Site Execution (Civil Work)	1	Site Execution (Civil Work)
OR					
Diploma	Civil Engineering	6	Site Execution (Civil Work)	1	Site Execution (Civil Work)

Assessor Certification	
Domain Certification	**Platform Certification**
Recommended that the Assessor is certified for the Job Role: *"Interior Finisher (Marble Laying)"*, mapped to the Qualification Pack: "ICE/CON/Q0301-SI003, v1.0". The minimum accepted score is 80%.	Recommended that the Assessor is certified for the Job Role: *"Assessor (VET and skills)"*, mapped to the Qualification Pack: "MEP/Q2701, v3.0". The minimum accepted score is 80%.

Assessment Strategy

This section includes the processes involved in identifying, gathering and interpreting information to evaluate the Candidate on the required competencies of the program.

1. **Assessment System Overview:**

   Assessment is done through ICES affiliated Assessment Agencies. Assessors are trained & certified by ICES after Training of Assessor (ToA) program. Assessments are conducted to gauge and assess the trainee's skill and knowledge competency in the specified areas.
   The assessment will have both theory, practical and viva components as per ratio specified in each NOS for **Interior Finisher** job role.

   During the practical task, trainees are assessed on their workmanship, quality of finished product and time management. They will be graded for all their assessments based on the approved assessment strategy which is signed off by ICES. The Assessor submits an assessment plan to ICES prior to assessments.
   The assessment plan contains the following information:

   - What will be assessed, i.e. the competency based on each NOS based on theory, practical and viva questions
   - How assessment will occur i.e. methods of assessment
   - When the assessment will occur
   - Duration of assessment
   - Where the assessment will take place i.e. context of the assessment (workplace/simulation)
   - The criteria for decision making i.e. those aspects that will guide judgments
   - Where appropriate, any supplementary criteria are used to make a judgment on the level of performance.

   ICES will be monitoring thoroughly the complete Assessment process.

2. **Testing Environment:**

   - Training partner shares the batch start date and end date, number of trainees and the job role.
   - Assessment will be fixed for a day after the end date of training. It could be next day or later. Assessment will be conducted at the training venue/test center only.
   - The knowledge/theory assessments are conducted with proper seating arrangements with enough space between the candidates to prevent mal practicing.
   - Question set for Theory and Practical will be distributed to each candidate by the Assessor.
     - Theory testing will include MCQ type questions, pictorial questions etc. which will test the trainee on his theoretical knowledge of the subject.
     - Practical assessments will be conducted in the approved test centers. The training provider will ensure adequate tools and materials are available to conduct the practical test.
     - Viva Testing will be conducted during or post to the practical assessment by the assessor concerned. This Viva Assessment is

applicable to understand the outcomes from OJT attended by the concerned candidate.

- One (1) Assessor is eligible to conduct assessments of a batch of maximum 30 candidates.
- The assessment must comprise of two components, namely:
  - Knowledge assessment (Theory and Viva assessment)
  - Skill assessment (Practical / Hands-on Skill assessment)

3. **Mode of assessment**
   - Demonstration/Practical Performance /Skill Assessment
   - Synoptic multiple-choice question test for Theory Assessment
   - Viva for Knowledge Assessment (Applicable to note the outcomes from OJT only)
4. **Performance/skill assessment:**
   - The performance/skill assessment will be conducted through demonstration/practical
   - For the practical test trainees are assessed through a given task, which they have to complete correctly for them to be marked as passed.
   - The assessment is conducted in a simulated working environment. Due to this fact, the assessors must note that the naturally occurring evidence of competence is unavailable or infrequent. Simulation must be undertaken in a Realistic Working Environment which provides an environment that replicates the key characteristics of the workplace in which the skill to be assessed is normally employed.
5. **Knowledge Assessment:**
   - The knowledge assessments are conducted through Theory (written) Test and Viva Test
   - Synoptic test is used for this. It is an MCQ (Multiple Choice Question) test which is prepared externally and externally marked, meaning by agency having no link with training partners.
   - The Viva test will be conducted by the assessor in the oral mode considering the communication and domain understanding of skills of trainees.
   - The assessment strategy, weightage and duration of assessment for **Interior Finisher** is summarized below

Assessment Type	Formative or Summative	Strategies	Weightage	Duration (hours)
Knowledge	Summative	MCQ	30	1 hour
Knowledge	Summative	Viva	10	1 hour
Skill	Summative	Structured practical Task	60	6 hours

6. **Assessment Quality Assurance levels/Framework**
   - ICES has developed assessment criteria framework for each Qualification pack as per National Occupational Standards. The criteria framework includes weightages/marks for each criterion under knowledge and skill. The criteria ensure quality assurance as they ensure valid, consistent and fair assessments at all locations. Issued to the affiliated Assessment body. The Assessment Body develops questions based on ICES's approved assessment criteria.

- The training partner will intimate the time of arrival of the assessor and time of leaving the venue. Random spot checks/audit may be conducted by ICES to monitor assessment.
- Continuous Monitoring through virtual and In-person mode are conducted to ensure the assessment is conducted as per stipulated process
- Process and Technical audit of assessment batches by quality team are conducted to avoid errors in assessment process
- A well -defined comprehensive framework of NON-COMPLIANCE MATRIX is defined and implemented to identify the non-compliance made by assessor and AA and punitive actions are taken correspondingly.
- The capacity building sessions are conducted regularly for assessors and assessment agencies to update them about best practices in assessment

7. Types of evidence or evidence-gathering protocol:

- Evidence in the form of answer sheets in case of knowledge assessments (Theory only) is collected.
- For Practical and Viva assessments videos and photographs are prepared as evidence. These are submitted by the assessor to the assessment agency. ICES does random checks of the same with the participant/ trainee's ID and ascertains authenticity and validity of assessments.
- Post Assessment, the evidence are uploaded by Assessor to assessment agency and further assessment agency to ICES as per stipulated TAT
- Evidence are broadly photographic and video graphics in nature (Geo-Tagged)
- Results along with evidence to be submitted to ICES by the concerning Assessment Agency in the prescribed format and on Digital Format and Physical Format (As required)
- Results to be uploaded on SIDH and other relevant portals for collective data management.

8. Method of verification or validation:

- The process and technical audit of assessment batches are done by Awarding Body
- Attendance of each candidate is verified and it is ensured that only those candidates are assessed by assessors who are meeting the stipulated minimum percentage of attendance
- The result of each candidate is verified; it is verified that that result on SIP is matched with respect to summary sheet submitted by AAs
- Under detailed technical audit for sample batches, the knowledge and skill assessment results for each candidate are checked in technical aspect.
- All the evidence of batches are preserved on server of Awarding Body digital platform

9. On the Job:

- On job training (OJT), candidates undergo training and leaning at actual workplace for a fixed period of time and a certain weightage of assessment is allocated out of total skill weightage of Qualification Pack for undergoing OJT as stipulated by ICES. This OJT score and assessors' end point score are combined to arrive at final Marking/grading of trainees' skill test. The OJT score is determined by Supervisor / Engineer / other authorized head of departments of relevant industry under which candidates undergo on job training.
- The Assessment is subject to take place only after submission of OJT data (in case of STT only) approved by concerned industry and training provider.

- The Hard copy of the OJT report (on trainings, outcomes, exposures learnt and feedback certified by Supervisor / Engineer / other authorized head of departments of relevant industry) will be submitted to the Assessor by the concerned candidate on the Assessment date only, failing which the candidate may not be allowed for attending the Assessment.
- As OJT is mandatory for this QP, the TP should ensure the correct submission of all relevant reports pertaining to OJT of each trained candidate. The Assessment agency is responsible for collecting all the relevant information and submit the same to ICES in future (if required).

References

Glossary

Term	Description
Sector	Sector is a conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
Occupation	Occupation is a set of job roles, which perform similar/ related set of functions in an industry.
Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organisation.
Occupational Standards (OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the Knowledge and Understanding (KU) they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
Performance Criteria (PC)	Performance Criteria (PC) are statements that together specify the standard of performance required when carrying out a task.
National Occupational Standards (NOS)	NOS are occupational standards which apply uniquely in the Indian context
Qualifications Pack (QP)	QP comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications pack code.
Unit Code	Unit code is a unique identifier for an Occupational Standard, which is denoted by an 'N'
Unit Title	Unit title gives a clear overall statement about what the incumbent should be able to do.
Description	Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.
Scope	Scope is a set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on quality of performance required.
Knowledge and Understanding (KU)	Knowledge and Understanding (KU) are statements which together specify the technical, generic, professional and organisational specific knowledge that an individual needs in order to perform to the required standard.
Organisational Context	Organisational context includes the way the organisation is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
Technical Knowledge	Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
Core Skills/ Generic Skills (GS)	Core skills or Generic Skills (GS) are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles.

Electives	Electives are NOS/set of NOS that are identified by the sector as contributive to specialization in a job role. There may be multiple electives within a QP for each specialized job role. Trainees must select at least one elective for the successful completion of a QP with Electives.
Options	Options are NOS/set of NOS that are identified by the sector as additional skills. There may be multiple options within a QP. It is not mandatory to select any of the options to complete a QP with Options.

Acronyms and Abbreviations

Acronym	Description
NOS	National Occupational Standard(s)
NSQF	National Skills Qualification Framework
QP	Qualification Pack
TVET	Technical and Vocational Education and Training
MSDE	Ministry of Skill Development and Entrepreneurship
NCVET	National Council for Vocational Education and Training
NSDC	National Skill Development Corporation
ICES	Integrated Council for Entrepreneurship and Skilling (erstwhile The Institution of Civil Engineers Society)
AB	Awarding Body
AA	Assessment Agency
TP	Training Partner
TC	Training Centre
ITI	Industrial Training Institute
ISCO	International Standard Classification of Occupations
NCO	National Classification of Occupations
NCrF	National Credit Framework
NEP	New Education Policy
Q-File	Qualification File
MC	Model Curriculum
PC	Performance Criteria
KU	Knowledge and Understanding
GS	Generic Skills
PMKVY	Pradhan Mantri Kaushal Vikas Yojana
DDUGKY	Deen Dayal Upadhyaya Grameen Kaushalya Yojana
STT	Short Term Training
RPL	Recognition of Prior Learning
NAPS	National Apprenticeship Promotion Scheme
NQR	National Qualification Register
OJT	On the Job Training
NSQC	National Skill Qualification Committee
IS	Indian Standard
PPE	Personal Protective Equipment