

Model Curriculum

QP Name:	**Interior Finisher** **Electives: Tiling**
QP Code:	**ICE/CON/Q0301-SI002**
Version:	**1.0**
NSQF Level:	**4**
Model Curriculum Version:	**1.0**

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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 2: Tiling

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/N0307: Level and Prepare Surfaces for Tiling Work NOS Version: 1.0 NSQF Level: 4	**10:00**	**05:00**	**15:00**	**00:00**	**30:00**
Module 10: Surface Preparation for Tiling	10:00	05:00	15:00	00:00	30:00
ICE/CON/N0308: Measure and Cut Tiles as Per Layout Specifications NOS Version: 1.0 NSQF Level: 4	**05:00**	**10:00**	**15:00**	**00:00**	**30:00**
Module 11: Measure, Mark and Cut Tiles for Installation	05:00	10:00	15:00	00:00	30:00
ICE/CON/N0309: Install Standard Tiles and Prefabricated Tile Sheets NOS Version: 1.0 NSQF Level: 4	**10:00**	**35:00**	**15:00**	**00:00**	**60:00**
Module 12: Install Standard Tiles and Prefabricated Tile	10:00	35:00	15:00	00:00	60:00
ICE/CON/N0310: Apply Grouts and Sealants for Tiled Surfaces NOS Version: 1.0 NSQF Level: 4	**05:00**	**10:00**	**15:00**	**00:00**	**30:00**
Module 13: Apply Grout and Sealant for Tile Finishing	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 10: Surface Preparation for Tiling

Mapped to ICE/CON/N0307, v1.0

Terminal Outcomes:

- Describe techniques for inspecting surfaces before tile installation.
- Demonstrate surface cleaning and removal of contaminants before tiling.

Duration: 10:00	**Duration: 05:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Explain the types of surfaces used for tiling and their characteristics. • Describe common surface defects such as cracks, moisture problems, unevenness and loose materials. • Identify tools and equipment used for surface inspection and cleaning, such as scrapers, moisture meters and cleaning agents. • Explain different methods for cleaning surfaces, including removing dirt, debris, grease and old adhesives. • Identify tools used for leveling and priming, such as trowels, screeds and leveling equipment. • Explain different methods for applying surface leveling compounds or mortar. • Describe techniques for checking surface alignment and flatness using straight edges and levels. • Explain the properties and types of primers and bonding agents for various surfaces. • Describe the correct procedures for applying primers or bonding agents to improve adhesion. • Explain the curing and drying times required for different materials before tiling. • Describe safety guidelines for handling and storing leveling compounds, primers and adhesives. • Identify quality standards for surface leveling and priming to ensure proper tile adhesion and alignment. • Describe techniques for repairing surface defects using fillers and patching compounds. • Explain the importance of assessing moisture content and methods for addressing damp surfaces before tiling. • Describe safety measures for handling cleaning tools, chemicals and moisture-	• Show how to inspect surfaces for cracks, moisture and unevenness using appropriate tools. • Show how to remove dirt, grease, old adhesives and debris from surfaces using cleaning agents and scrapers. • Demonstrate the correct method for repairing cracks, holes and surface irregularities using fillers or patching compounds. • Show how to use a moisture meter to assess moisture content and apply moisture-resistant treatments if needed. • Demonstrate the use of proper ventilation techniques during cleaning and preparation activities. • Show how to dispose of cleaning waste and materials safely while maintaining a clean workspace. • Demonstrate how to check the cleaned surface for readiness before proceeding to leveling. • Show how to select and use the appropriate tools for surface leveling. • Show the process of applying surface leveling compounds or mortar evenly. • Demonstrate how to use straight edges, levels and plumb lines to check surface alignment and flatness. • Show how to select the correct primer or bonding agent based on the surface type and tile specifications. • Demonstrate the proper technique for applying primers or bonding agents for uniform coverage. • Show how to ensure the prepared surface is cured or dried according to manufacturer guidelines before tiling. • Demonstrate how to maintain cleanliness and follow safety procedures during surface leveling and priming activities.

resistant treatments. • Explain the importance of proper ventilation during cleaning and drying processes	
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Inspection tools (moisture meters, straight edges, levels), cleaning tools (scrapers, wire brushes, sponges, vacuum cleaners), cleaning agents (detergents, degreasers, solvents), patching materials (fillers, putty, cement-based compounds), protective gear (gloves, goggles, masks) and ventilation equipment (fans, exhaust systems).	

Module 11: Measure, Mark and Cut Tiles for Installation

Mapped to ICE/CON/N0308, v1.0

Terminal Outcomes:

- Describe methods for accurately measuring and marking tile layouts.
- Demonstrate techniques for preparing tiles before installation.

Duration: 05:00	**Duration: 10:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Explain different types of tiles, such as ceramic, porcelain, glass and natural stone and their characteristics. • Describe the importance of reviewing layout plans and specifications before measuring and marking tiles. • Identify tools used for measuring and marking tiles, such as measuring tapes, rulers, squares, pencils and scoring tools. • Explain techniques for measuring tile dimensions accurately to match layout specifications. • Describe the importance of marking cutting lines precisely to ensure proper tile fit. • Explain tile orientation, patterns and visual alignment for reducing wastage and achieving an aesthetically pleasing layout. • Describe the significance of pre-planning tile placement before cutting. • Explain safety precautions while handling measuring and marking tools. • Identify different cutting tools, such as manual tile cutters, wet saws, angle grinders and nippers and their specific uses. • Explain techniques for cutting tiles, including straight cuts, angled cuts, curved cuts and hole cutting. • Describe the importance of choosing the correct cutting method based on the tile material. • Explain how to smooth tile edges using sandpaper, rubbing stones or other finishing tools. • Describe techniques to verify cut tiles for accuracy before installation. • Explain how to prevent tile breakage by handling tiles and cutting tools properly. • Identify safety guidelines for using tile-cutting tools to prevent injuries. • Describe the importance of aligning cut tiles with layout specifications for a	• Show how to review layout plans and determine tile measurements and cutting requirements. • Show how to identify tile size, pattern and orientation according to the design layout. • Demonstrate the correct use of measuring tools to measure tile dimensions accurately. • Show how to mark cutting lines on tiles using appropriate tools such as pencils, markers or scoring tools. • Demonstrate how to plan tile placement to minimize wastage and maintain design alignment. • Show how to check and verify measurements before proceeding with tile cutting. • Show how to perform straight, diagonal and curved cuts using the correct cutting tools. • Demonstrate how to cut tiles along marked lines accurately to achieve desired sizes and shapes. • Show how to smooth tile edges using sandpaper or rubbing stones for a clean finish. • Demonstrate how to check cut tiles for accuracy and ensure they fit within the intended layout. • Show how to plan cutting sequences to minimize wastage and maintain visual alignment. • Demonstrate safety precautions while handling tile-cutting tools to prevent injuries and tile breakage.

professional finish.	
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Measuring tapes, rulers, squares, pencils, markers, scoring tools, tile spacers, tile templates, chalk lines, tile cutting guides, safety gloves, goggles, manual tile cutters, wet saws, angle grinders, nippers, sandpaper, rubbing stones and dust masks.	

Module 12: Install Standard Tiles and Prefabricated Tile

Mapped to ICE/CON/N0309, v1.0

Terminal Outcomes:

- Explain factors influencing tile layout planning and pattern selection.
- Demonstrate marking and alignment techniques for accurate tile placement.

Duration: 10:00	**Duration: 35:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Explain different types of tiles, including standard tiles and prefabricated sheets and their uses. • Describe surface preparation techniques, including cleaning, leveling and priming, to ensure proper adhesion. • Identify different types of adhesives, grouts and tools used in tile installation. • Explain layout planning methods to ensure tile alignment, spacing and minimal cutting. • Describe the importance of selecting proper tile placement and starting points for better design consistency. • Explain the steps for setting up tools and materials to enhance workflow efficiency and safety. • Describe safety guidelines for handling adhesives, grouts and tiling tools. • Explain techniques for applying adhesives uniformly, including selecting appropriate thickness and coverage. • Describe the process of fixing tiles and prefabricated tile sheets to achieve proper adhesion and stability. • Explain the role of tile spacers in maintaining alignment and uniform gaps between tiles. • Describe how to adjust tile positions to maintain straight lines and design consistency. • Explain methods for cutting and fitting tiles around corners, edges and fixtures while maintaining visual continuity. • Describe the steps involved in installing prefabricated tile sheets to ensure uniform spacing. • Explain the importance of adhesive curing time and how to check for loose tiles before grouting. • Describe the process of applying grout evenly into joints and techniques for removing excess grout. • Explain methods for cleaning and	• Show how to select appropriate adhesives, grouts and tools based on tile type and surface material. • Demonstrate how to lay out tiles and prefabricated sheets to ensure proper alignment and spacing. • Show how to determine tile placement and starting points to minimize cutting and improve design accuracy. • Demonstrate how to set up tools and materials efficiently while ensuring safety during the installation process. • Demonstrate how to apply adhesives using appropriate tools such as trowels, ensuring even coverage. • Show how to fix tiles and prefabricated tile sheets onto surfaces while maintaining alignment and stability. • Demonstrate the use of tile spacers to maintain uniform gaps and ensure correct positioning. • Show how to adjust tile positions to align with layout plans. • Demonstrate how to cut and fit tiles accurately around edges, corners and fixtures. • Show how to install prefabricated tile sheets with uniform spacing and alignment. • Demonstrate how to check for loose tiles before applying grout. • Show how to apply grout evenly and remove excess grout for a clean finish. • Demonstrate how to clean and polish the tile surface for a visually appealing result. • Show how to handle tile installation challenges, such as surface irregularities and misalignment. • Demonstrate safety precautions while working with tile adhesives, cutting tools and grout materials

polishing the tile surface to remove adhesive and grout residues. • Identify common challenges in tile installation, such as uneven surfaces, misalignment and corrective measures.	
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Notched trowels, tile spacers, rubber mallets, grout floats, mixing buckets, adhesives, grouts, spirit levels, plumb lines, tile suction cups, sponges, cleaning cloths, protective gloves, safety goggles, adhesive spreaders, tile cutters, angle grinders with diamond blades, tile nippers, hole saws, measuring tapes, straight edges and dust masks.	

Module 13: Apply Grout and Sealant for Tile Finishing

Mapped to ICE/CON/N0310, v1.0

Terminal Outcomes:

- Explain the importance of surface cleaning before grouting.
- Demonstrate proper techniques for surface preparation before applying grout.

Duration: 05:00	**Duration: 10:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Explain the purpose of grouting and sealing in tile installation and their role in durability and aesthetics. • Identify different types of grout (cement-based, epoxy, urethane) and sealants (silicone, acrylic, penetrating) and their specific applications. • Describe methods for cleaning and drying tiled surfaces before grout and sealant application. • Explain the importance of ensuring that tile joints are free from debris and moisture before grouting. • Describe the process of mixing grout and sealants according to manufacturer instructions for optimal consistency. • Explain how to select appropriate grout and sealant based on tile material, environmental conditions and project requirements. • Explain the techniques for applying grout evenly, including spreading methods and pressure control. • Describe the correct use of a rubber float to press grout into tile joints without damaging the tile surface. • Explain the importance of removing excess grout from the tile surface to prevent hazing and residue. • Describe the required curing times for different types of grout and how environmental conditions affect the curing process. • Explain the application process for sealants, including the importance of creating a moisture barrier and preventing stains. • Describe how to apply sealant smoothly and evenly to grout lines and tile edges. • Explain the methods for cleaning grout haze and sealant residue from tiles after application. • Identify common issues in grouting and sealing, such as air bubbles, uneven	• Show how to inspect and clean tiled surfaces to remove dust, debris and moisture before application. • Demonstrate how to mix grout and sealants correctly, ensuring the right consistency and quantity. • Show how to select and prepare tools such as rubber floats, trowels and caulking guns for efficient application. • Demonstrate how to test grout consistency before application to ensure workability. • Show how to choose and prepare the appropriate sealant based on tile type and environmental factors. • Demonstrate how to apply grout using a rubber float, ensuring full coverage in tile joints. • Show how to control grout pressure to fill joints without damaging tiles. • Demonstrate how to remove excess grout from tile surfaces using the float at an angle. • Show how to check for proper grout curing time before sealing. • Demonstrate the application of a thin, even layer of sealant to grout lines and tile edges. • Show how to ensure consistent sealant application without overuse or gaps. • Demonstrate how to clean grout haze and sealant residue without affecting tile integrity. • Show how to inspect grout joints and sealant coverage for uniformity and durability. • Demonstrate how to handle grouting and sealing tools safely and efficiently. • Show how to troubleshoot and correct issues like uneven grout lines, excess sealant and premature drying.

coverage and improper curing and describe corrective measures. • Explain safety procedures for handling grout, sealants and associated tools. • Describe safety guidelines for handling grout, sealants and cleaning chemicals.	
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Rubber floats, grout mixing buckets, mixing paddles, grout sponges, cleaning cloths, trowels, caulking guns, sealant applicators, measuring cups, protective gloves, safety goggles, dust masks, vacuum cleaners, soft-bristle brushes, spray bottles, moisture meters, tile spacers, plastic scrapers	

On-the-Job Training

Mapped to Interior Finisher (Tiling), 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/N0307	**Level and Prepare Surfaces for Tiling Work**
Mandatory OJT duration (in Hours)	**15:00**
Terminal Outcomes:	
During the OJT period, the candidate will be able to: • Inspect substrate for cracks, unevenness, moisture and structural defects. • Use levelling compounds and patching techniques to correct surface irregularities. • Clean substrate using solvents and mechanical tools to improve adhesive bonding. • Apply primers and bonding agents as per tile type and adhesive system.	
ICE/CON/N0308	**Measure and Cut Tiles as Per Layout Specifications**
Mandatory OJT duration (in Hours)	**15:00**
Terminal Outcomes:	
During the OJT period, the candidate will be able to: • Measure tile layout and mark cutting points as per design drawings. • Cut tiles using manual cutters, wet saws, angle grinders and hole saws. • Smooth tile edges using rubbing stones and sandpaper. • Minimise wastage by optimising orientation and cutting sequence.	
ICE/CON/N0309	**Install Standard Tiles and Prefabricated Tile Sheets**
Mandatory OJT duration (in Hours)	**15:00**
Terminal Outcomes:	
During the OJT period, the candidate will be able to: • Apply adhesive using correct trowel thickness to ensure bonding and alignment. • Fix tiles and prefabricated tile sheets with appropriate spacers and tapping techniques. • Maintain alignment using levels, plumb line and string guidelines. • Cut and fit tiles around corners, fixtures and openings without edge chipping.	
ICE/CON/N0310	**Apply Grouts and Sealants for Tiled Surfaces**
Mandatory OJT duration (in Hours)	**15:00**
Terminal Outcomes:	
During the OJT period, the candidate will be able to: • Mix and apply grout uniformly into joints using grout float. • Remove grout haze and clean tiles without damaging surface finish. • Apply sealant to tile edges and joints for waterproofing and stain resistance. • Inspect joints for uniformity, curing and leak prevention.	

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 (Tiling)"*, mapped to the Qualification Pack: "ICE/CON/Q0301-SI002, 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 (Tiling)"*, mapped to the Qualification Pack: "ICE/CON/Q0301-SI002, 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