Model Curriculum

QP Name:	**Interior Finisher** **Painting / Tiling / Marble Laying / False Ceiling and Drywall Installation / Waterproofing**
QP Code:	**ICE/CON/Q0301**
Version:	**1.0**
NSQF Level:	**4**
Model Curriculum Version:	**1.0**

The Institution of Civil Engineers Society (ICES)
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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	900 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 1: Painting

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/N0302: Prepare Surfaces for Painting NOS Version: 1.0 NSQF Level: 4	**10:00**	**05:00**	**15:00**	**00:00**	**30:00**
Module 6: Surface Preparation for Painting	10:00	05:00	15:00	00:00	30:00
ICE/CON/N0303: Prepare Paint Mix Including Digital Colour Matching NOS Version: 1.0 NSQF Level: 4	**05:00**	**10:00**	**15:00**	**00:00**	**30:00**
Module 7: Paint Mixing and Preparation	05:00	10:00	15:00	00:00	30:00
ICE/CON/N0304: Apply Paints Using Traditional and Airless Spray Techniques NOS Version: 1.0 NSQF Level: 4	**10:00**	**35:00**	**15:00**	**00:00**	**60:00**
Module 8: Apply Paints Using Traditional and Airless Spray Techniques	10:00	35:00	15:00	00:00	60:00
ICE/CON/N0305: Identify and Repair Common Painting Issues	**05:00**	**10:00**	**15:00**	**00:00**	**30:00**

NOS Version: 1.0 NSQF Level: 4					
Module 9: Identify and Repair Common Painting Issues	05:00	10:00	15:00	00:00	30:00
Total Duration	**30:00**	**60:00**	**60:00**	**00:00**	**150:00**

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**

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	**05:00**	**10:00**	**15:00**	**00:00**	**30:00**

NSQF Level: 4					
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**

Elective 4: False Ceiling and Drywall Installation

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/N0317: Prepare Framework for False Ceiling Installation **NOS Version: 1.0** **NSQF Level: 4**	**10:00**	**05:00**	**15:00**	**00:00**	**30:00**
Module 18: Framework Preparation for False Ceiling	10:00	05:00	15:00	00:00	30:00
ICE/CON/N0318: Install Flush Jointed and Open Grid Ceiling Systems **NOS Version: 1.0** **NSQF Level: 4**	**05:00**	**10:00**	**15:00**	**00:00**	**30:00**
Module 19: Install Flush-Jointed Ceilings	02:00	05:00	07:00	00:00	14:00
Module 20: Install Exposed Grid Suspended Ceilings	03:00	05:00	08:00	00:00	16:00
ICE/CON/N0319: Install Prefabricated Ceiling and Drywall Systems **NOS Version: 1.0** **NSQF Level: 4**	**10:00**	**35:00**	**15:00**	**00:00**	**60:00**

Module 21: Install Prefabricated Ceiling Panels & Drywall	10:00	35:00	15:00	00:00	60:00
ICE/CON/N0320: Install Structural Wall Panels and Insulated Partitions NOS Version: 1.0 NSQF Level: 4	**05:00**	**10:00**	**15:00**	**00:00**	**30:00**
Module 22: Install Structural Wall Panels and Insulated Partitions	05:00	10:00	15:00	00:00	30:00
Total Duration	**30:00**	**60:00**	**60:00**	**00:00**	**150:00**

Elective 5: Waterproofing

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/N0322: Prepare Framework for False Ceiling Installation NOS Version: 1.0 NSQF Level: 4	**15:00**	**45:00**	**30:00**	**00:00**	**90:00**
Module 23: Apply Waterproof Membrane Systems & Adhesive-Based Waterproofing	15:00	45:00	30:00	00:00	90:00
ICE/CON/N0323: Inspect and Maintain Waterproofed Surfaces NOS Version: 1.0 NSQF Level: 4	**15:00**	**15:00**	**30:00**	**00:00**	**60:00**
Module 24: Inspect and Maintain Waterproofed Surfaces	15:00	15:00	30:00	00:00	60:00
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 6: Surface Preparation for Painting

Mapped to ICE/CON/N0302, v1.0

Terminal Outcomes:

- Explain surface inspection methods for painting.
- Demonstrate techniques for cleaning, sanding and priming surfaces.

Duration: 10:00	**Duration: 05:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Explain the characteristics of different surfaces (wood, metal, concrete) and how they should be prepared for painting. • Identify common contaminants like rust, grease, dirt and old paint and explain how they affect paint adhesion. • Describe different surface cleaning methods, such as wiping with solvents, washing with detergents and using chemical strippers. • Explain how to sand and smooth surfaces using manual or power sanders. • Describe how to fill cracks, holes and gaps with suitable fillers to create a smooth surface. • Explain the role of primers and undercoats and how they work with different surfaces and paint types. • Identify the tools and equipment used for surface preparation, such as sanders, scrapers and brushes. • Describe safety precautions for handling cleaning chemicals, sanding dust and primer fumes. • Explain the importance of good ventilation and protective measures during surface preparation. • Describe methods for covering and protecting surrounding areas to prevent damage while preparing surfaces. • Explain how to apply primers or undercoats using brushes, rollers or spray equipment. • Describe how to ensure an even application of primers and full surface coverage. • Explain how to inspect surfaces for smoothness and readiness before painting. • Describe the standard drying times for primers and how environmental factors affect them. • Explain the quality standards required for	• Show how to check the work plan to understand surface preparation needs. • Demonstrate how to identify the type of surface to select the best preparation method. • Show how to remove contaminants like rust, grease, dirt and old paint using the correct cleaning techniques. • Demonstrate how to ensure proper ventilation in the work area to prevent exposure to harmful fumes. • Show how to protect nearby areas using masking tape, drop cloths or by moving objects away. • Show how to smooth surfaces using manual or power sanders. • Demonstrate how to fill cracks, holes or gaps with the right fillers and level them with a scraper or putty knife. • Show how to inspect the surface for uniformity and repeat sanding or filling if necessary. • Show how to choose the correct primer or undercoat based on the surface type and paint requirements. • Demonstrate how to apply primer evenly using a brush, roller or spray equipment. • Show how to allow the primer to dry fully before applying the next layer, following manufacturer instructions.

a properly prepared surface to ensure long-lasting paint.	
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Wire brushes, scrapers, putty knives, sandpaper (various grits), sanding blocks, power sanders, dust masks, safety goggles, gloves, cleaning solvents, detergent solutions, chemical strippers, drop cloths, masking tape, surface fillers, spatulas, caulking guns, primer brushes, rollers, spray guns, paint trays, measuring cups, mixing sticks, air ventilation fans and moisture meters.	

Module 7: Paint Mixing and Preparation

Mapped to ICE/CON/N0303, v1.0

Terminal Outcomes:

- Describe different types of paints, thinners and additives.
- Demonstrate proper techniques for mixing and preparing paint for application.

Duration: 05:00	**Duration: 10:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Explain different types of paints (oil-based, water-based, emulsion) and their uses. • Describe the role of additives, thinners and colorants in improving paint quality. • Explain the importance of using fresh and high-quality materials. • Demonstrate understanding of how to calculate the required paint quantity. • Describe the correct mixing ratios and manufacturer guidelines. • Identify tools and equipment for mixing (stirrers, mixers, viscosity cups, etc.). • Explain how to keep the mixing area clean to prevent contamination. • Describe methods for mixing base paints, colorants and additives. • Explain how to adjust paint viscosity for different application methods. • Explain how environmental factors like humidity and temperature affect paint mixing. • Explain proper storage methods to extend paint shelf life. • Describe troubleshooting methods for common mixing issues like incorrect colour or thickness. • Explain how digital colour-matching systems work and their importance. • Describe how to check and match colours accurately. • Explain the impact of lighting conditions on colour perception. • Describe the process of testing paint samples for colour accuracy and texture. • Explain how to adjust formulations to match a target colour. • Describe the role of binders and resins in improving paint durability. • Explain industry standards for achieving	• Show how to identify and select the correct type of paint. • Demonstrate how to check paint quality and expiration. • Show how to read and follow manufacturer's instructions. • Demonstrate how to calculate the required paint quantity. • Show how to choose the right mixing tools and equipment. • Demonstrate how to select the correct type of stirrer or mixer based on paint viscosity and quantity. • Show how to properly measure and pour paint, thinners and additives in the correct proportions. • Demonstrate how to mix paint manually using a wooden or metal stir stick in a circular and figure-eight motion for even blending. • Show how to mix paint using a mechanical stirrer, ensuring the correct speed and duration for uniform consistency. • Demonstrate how to prevent air bubbles from forming during the mixing process. • Show how to strain mixed paint through a fine mesh filter to remove impurities before application. • Demonstrate how to properly clean mechanical mixers and tools after use to prevent cross-contamination. • Show how to safely handle and dispose of leftover paint, solvents and cleaning materials according to safety guidelines. • Show how to set up and calibrate digital colour-matching equipment. • Demonstrate how to input colour codes and analyze shade formulations. • Show how to verify and correct shade discrepancies using digital equipment. • Demonstrate how to ensure proper

uniform colour consistency. • Describe the importance of filtering and straining mixed paint for a smooth finish. • Explain the importance of labelling and recording paint formulations for future use. • Describe quality control checks to maintain consistency across batches	lighting for accurate colour matching. • Show how to measure paint components precisely. • Demonstrate how to mix paint evenly for a smooth and uniform texture. • Show how to document paint formulations and batch details. • Demonstrate how to test a sample for shade accuracy. • Show how to compare shades under different lighting conditions. • Demonstrate how to adjust the formulation to match the exact colour. • Show how to maintain shade consistency across different batches. • Demonstrate proper storage and labelling of mixed paint.
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Paint cans, measuring cups, mixing sticks, mechanical mixers, viscosity cups, strainers, fine mesh filters, wooden and metal stirrers, paint paddles, colorants, additives, thinners, solvent dispensers, digital scales, gloves, safety goggles, respirators, cleaning rags, disposable liners, airtight storage containers, waste disposal bins, colour spectrophotometers, digital colour-matching equipment, shade cards, colour swatches, lightboxes for colour testing, colour sample boards, binders, resins, paint testers, labelling materials and record-keeping logs.	

Module 8: Apply Paints Using Traditional and Airless Spray Techniques

Mapped to ICE/CON/N0304, v1.0

Terminal Outcomes:

- Describe brush, roller and sponge painting techniques.
- Demonstrate proper handling of painting tools to achieve a smooth finish.

Duration: 10:00	**Duration: 35:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Explain the different tools used in traditional painting (brushes, rollers, trays, stirrers). • Explain the importance of proper stroke techniques for smooth and even paint application. • Describe how to layer multiple coats for opacity and uniform coverage. • Explain the edge cutting technique to ensure neat and precise finishes. • Describe how to clean and maintain brushes and rollers for long-term use. • Explain how environmental factors (humidity, temperature) affect traditional painting. • Describe safety measures for handling paints, including PPE use and ventilation. • Explain how to properly store and dispose of leftover paint and cleaning solvents. • Describe quality control measures to check for drips, streaks or patchy areas. • Explain the principles and working mechanism of airless spray painting systems. • Describe the different components of airless spray equipment, including nozzles, pressure settings and hoses. • Explain how to set up and adjust airless spray equipment for different surfaces and paint types. • Describe the importance of performing test sprays to ensure correct paint flow and spray pattern. • Explain the correct spray techniques, including maintaining the right distance, overlap and speed. • Describe common issues in airless spray painting, such as clogging, overspray and inconsistent patterns, along with troubleshooting methods.	• Show how to select and use brushes, rollers and trays for different painting applications. • Demonstrate how to mix and prepare paint to achieve the correct consistency for application. • Show how to apply paint using smooth and even strokes to prevent streaks or drips. • Demonstrate layering techniques to build up opacity and achieve a uniform finish. • Show how to perform edge cutting and detailing for precise finishes on trims and corners. • Demonstrate the correct maintenance of tools during painting to prevent dried paint buildup. • Show how to clean and store brushes and rollers properly after use. • Demonstrate how to inspect painted surfaces for uneven areas and apply touch-ups as needed. • Show how to follow safety guidelines while handling and applying traditional paint. • Demonstrate how to properly dispose of paint waste and cleaning materials following environmental regulations. • Show how to set up and inspect airless spray equipment before use. • Demonstrate how to adjust pressure settings, nozzle size and spray angle according to the paint type and surface. • Show how to perform test sprays to check for proper paint flow and spray pattern. • Demonstrate the correct spray techniques by maintaining the appropriate distance, speed and overlap. • Show how to apply paint evenly without overspray, runs or uneven textures. • Demonstrate troubleshooting techniques for common spray painting issues such

• Explain the importance of PPE and ventilation when operating airless spray equipment. • Describe proper maintenance and cleaning procedures for airless spray systems. • Explain how environmental factors like humidity and temperature impact spray painting quality.	as nozzle clogging and improper spray patterns. • Show how to clean and maintain the airless spray system, including flushing out paint residues. • Demonstrate how to follow safety procedures, including PPE usage and proper ventilation. • Show how to inspect painted surfaces for uniformity and apply necessary touch-ups. • Demonstrate how to dispose of excess paint and cleaning solvents according to environmental guidelines.
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Various paintbrushes, rollers, roller trays, sponges, painter's tape, extension poles, drop cloths, edge-cutting tools, paint scrapers, stirrers, airless spray guns, high-pressure hoses, spray nozzles of various sizes, pressure regulators, test panels for practice, viscosity measuring tools, paint strainers, drop cloths, masking tapes, cleaning kits for spray guns, solvent tanks for flushing systems and PPE such as respirators, gloves, protective suits and safety goggles.	

Module 9: Identify and Repair Common Painting Issues

Mapped to ICE/CON/N0305, v1.0

Terminal Outcomes:

- Discuss common painting defects such as blistering, peeling and streaking.
- Explain factors that contribute to painting failures and defects.

Duration: 05:00	**Duration: 10:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Explain common painting defects, including peeling, cracking, blistering, flaking, chalking, fading, mildew and discoloration. • Describe the causes of painting issues, such as moisture, poor surface preparation, low-quality paint, application errors and environmental factors. • Explain methods for inspecting and diagnosing painting defects using visual assessments and tools like moisture meters. • Describe how to distinguish between surface-related and paint application-related issues for accurate diagnosis. • Explain the importance of documenting defects and their severity for appropriate repair planning. • Describe tools and equipment used for identifying painting issues, such as magnifiers, scrapers and moisture meters. • Explain quality standards for identifying painting defects to ensure proper repairs and durability. • Explain techniques for removing damaged paint, such as sanding, scraping, chemical stripping and pressure washing. • Describe surface preparation methods, including cleaning, sanding, patching cracks, priming and treating for moisture or mold. • Explain the properties and uses of primers, sealants and moisture/mildew-resistant paints to prevent future issues. • Describe correct application techniques to ensure smooth finishes and blending of repaired areas. • Explain tools and equipment required for repairing painting defects, such as scrapers, sandpaper, fillers and primers. • Describe preventative measures to avoid recurring painting defects, such as proper ventilation, surface treatments and quality paint selection	• Show how to inspect painted surfaces to identify defects like peeling, cracking, flaking and discoloration. • Demonstrate the use of tools like moisture meters, magnifiers and scrapers to analyze surface damage and defect patterns. • Show how to assess the root causes of painting issues, such as moisture infiltration, poor preparation or environmental factors. • Demonstrate how to document painting defects and their severity for appropriate repair planning. • Show how to differentiate between surface-related and paint application-related defects. • Show how to remove damaged or defective paint layers using appropriate tools like scrapers, sandpaper and chemical strippers. • Demonstrate surface preparation techniques, including cleaning, sanding, filling cracks and applying primer. • Show how to apply moisture or mold-resistant treatments to prevent recurring issues. • Demonstrate the selection and application of appropriate paints, primers and sealants for repaired surfaces. • Show how to ensure uniform application and blending to match repaired areas with surrounding surfaces. • Demonstrate corrective actions for underlying causes, such as fixing moisture seepage or improving ventilation, to prevent future defects. • Demonstrate the process of recording painting defects, repair work and maintenance recommendations for future reference.

Classroom Aids
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films
Tools, Equipment and Other Requirements
Moisture meters, magnifiers, scrapers, putty knives, defect sample boards, test panels with simulated defects, light sources for detailed inspection, humidity and temperature gauges, paint adhesion testers, surface contamination test kits, documentation tools, sandpaper (various grits), wire brushes, chemical paint strippers, pressure washers, patching compounds, caulking guns, primers, sealants, mildew-resistant treatments, paint rollers, brushes, spray equipment for applying sealants, dust masks, gloves, safety goggles and drop cloths.

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-resistant treatments. • Explain the importance of proper ventilation during cleaning and drying	• 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.

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	

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 the sealing process. • Explain safety precautions when working with marble sealants to	• 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.

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.	

Module 18: Framework Preparation for False Ceiling

Mapped to ICE/CON/N0317, v1.0

Terminal Outcomes:

- Explain the importance of framework preparation for false ceilings.
- Demonstrate techniques for measuring and installing framework components.

Duration: 10:00	**Duration: 05:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Identify different types of framework materials (e.g., metal grids, wooden battens) and their suitability for various ceiling types. • Explain the selection criteria for framework materials based on load-bearing capacity, ceiling design and environmental conditions. • Describe the tools and techniques used for precise measurement and marking of framework positions. • Explain the importance of maintaining structural integrity while cutting and preparing framework components. • Describe different cutting tools (e.g., hand saws, power cutters) and their applications for various framework materials. • Explain the significance of ensuring smooth edges after cutting to prevent damage and ensure safety. • Discuss different types of fasteners (e.g., screws, bolts, anchors) and their applications in securing framework components. • Describe the effects of misalignment on the false ceiling structure and how to correct alignment errors. • Explain safety precautions when handling framework materials, cutting components and working at heights. • Explain the importance of ensuring proper alignment and leveling in false ceiling frameworks. • Describe different methods for leveling frameworks using plumb lines, laser levels and spirit levels. • Explain how misalignment affects the overall appearance and stability of the false ceiling. • Describe how to adjust framework components to achieve precise	• Show how to use a measuring tape, laser level and plumb bob to mark accurate framework positions. • Demonstrate the correct technique for cutting framework components while ensuring precision and safety. • Show how to smooth cut edges to ensure safe handling and prevent component damage. • Demonstrate how to prepare additional components such as brackets, clips and anchors for fixing the framework. • Show how to assemble framework components based on design specifications. • Demonstrate how to securely fix framework components using appropriate fasteners. • Show how to check the stability of the framework before proceeding with further installation. • Demonstrate how to follow safety protocols while measuring, cutting and assembling framework components. • Demonstrate how to use plumb lines, laser levels and other leveling tools to check framework alignment. • Show how to adjust framework components to correct misalignment. • Demonstrate how to verify the framework is level before proceeding with the false ceiling installation. • Show how to tighten fasteners and anchors to secure the framework. • Demonstrate how to check for any movement or instability in the framework after alignment. • Show how to identify and fix common framework alignment issues. • Demonstrate how to ensure proper spacing between framework components for even weight distribution. • Show how to conduct a final inspection of the framework to ensure compliance with design specifications.

alignment. • Explain the significance of securely fastening framework components to ensure stability. • Discuss the impact of structural conditions such as ceiling height and load-bearing capacity on framework alignment. • Explain best practices for verifying framework alignment before proceeding with false ceiling installation. • Describe common alignment issues and how to troubleshoot them effectively. • Explain safety measures when using leveling tools and working on elevated surfaces. • Discuss the importance of quality control checks before moving to the next phase of false ceiling installation	
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Measuring tape, laser level, plumb bob, hand saws, power cutters, metal grids, wooden battens, screws, bolts, anchors, brackets, clips, fasteners, smoothing tools (files, sandpaper), safety gear (gloves, helmets, goggles, harnesses.	

Module 19: Install Flush-Jointed Ceilings

Mapped to ICE/CON/N0318, v1.0

Terminal Outcomes:

- Describe the characteristics and installation process of non-suspended ceilings.
- Demonstrate techniques for joining and securing ceiling panels.

Duration: 05:00	**Duration: 10:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Explain the characteristics and applications of non-suspended flush-jointed ceiling systems. • Identify different types of framing systems and their specifications. • Explain the correct techniques for measuring and marking datums and fixing points. • Discuss the properties of materials like plasterboards, gypsum boards and fiberboards. • Describe the types of adhesives and fasteners used for fixing plasterboards. • Explain the importance of proper alignment and joint reinforcement techniques. • Describe finishing methods using jointing compounds and cement-based materials. • Explain the concept and applications of suspended flush-jointed ceiling systems. • Identify different suspension methods and their components, such as brackets, channels and wall angles. • Discuss the importance of accurately marking levels and fixing points for suspension brackets. • Explain the step-by-step procedure for installing suspension brackets and intermediate channels. • Describe the properties and uses of different ceiling sections and their support systems. • Discuss methods for securing plasterboards using drywall screws and adhesives. • Explain techniques for reinforcing and finishing joints using joint compounds and tapes. • Discuss industry standards and building codes related to suspended ceiling systems.	• Demonstrate how to inspect and clean the ceiling surface before installation. • Show how to accurately measure and mark levels and fixing points using measuring instruments. • Demonstrate the process of cutting plasterboards, gypsum boards or fiberboards to precise dimensions. • Show how to fix framing systems according to given design specifications. • Demonstrate how to securely attach plasterboards to the framing system using adhesives and fasteners. • Show the method of strengthening and reinforcing joints with jointing compound and paper tape. • Demonstrate the process of making accurate cutouts for electrical and plumbing fixtures. • Show how to apply finishing compounds and accessories to ensure a smooth ceiling surface. • Demonstrate the final inspection process to check alignment and smoothness of the installed ceiling. • Demonstrate how to draw and mark levels for wall angles and suspension brackets. • Show how to securely fasten wall angles and suspension brackets using appropriate tools. • Demonstrate the assembly and installation of intermediate channels while maintaining correct spacing. • Show the process of fixing ceiling sections perpendicular to intermediate channels while ensuring even alignment. • Demonstrate how to install plasterboards using drywall screws, maintaining proper spacing. • Show the application of jointing compounds and tapes to strengthen joints as per industry standards. • Demonstrate how to inspect the ceiling surface to ensure smoothness and concealment of joints. • Show how to perform corrective actions for

• Explain the safety protocols for working at heights during suspended ceiling installation.	misalignment or installation defects. • Demonstrate compliance with safety measures, including the use of ladders and PPE.
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Measuring tape, laser levels, plumb lines, plasterboards, gypsum boards, fiberboards, adhesives, fasteners (screws, nails, anchors), jointing compound, paper tape, cement-based materials, framing components, cutting tools (utility knife, saws), power drills, sanding tools, suspension brackets, wall angles, intermediate channels, joint tapes, safety gear (gloves, goggles, helmets, dust masks, harnesses) and ladders.	

Module 20: Install Exposed Grid Suspended Ceilings

Mapped to ICE/CON/N0318, v1.0

Terminal Outcomes:

- Describe the installation process for exposed grid ceiling systems.
- Demonstrate fitting ceiling tiles and panels into an exposed grid system.

Duration: 05:00	**Duration: 10:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Explain the structure and purpose of exposed grid suspended panel ceiling systems. • Identify the components of a grid system, including main tees, cross tees and suspension brackets. • Discuss measurement techniques for establishing datums and levels for grid positioning. • Explain how to securely fasten suspension brackets and main tees. • Describe the method of installing and aligning cross tees to form a stable grid structure. • Explain the correct procedure for placing panels into the grid system. • Describe the techniques for finishing panel joints to ensure a seamless look. • Discuss maintenance requirements and troubleshooting methods for grid ceiling systems. • Explain safety considerations when handling panels and working at heights.	• Demonstrate how to measure and mark levels for installing grid components. • Show how to securely fasten suspension brackets and main tees to the ceiling structure. • Demonstrate the assembly of cross tees and adjust them to form a precise grid. • Show the correct method of installing ceiling panels by placing them into the grid structure with precision. • Demonstrate how to adjust panel alignment to ensure a seamless and level appearance. • Show how to apply jointing compounds and finishing techniques to conceal panel joints. • Demonstrate the inspection process to verify the stability and alignment of the installed ceiling. • Show the proper use of tools and safety equipment during grid ceiling installation. • Demonstrate corrective adjustments for common installation issues such as misalignment or loose panels.
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Measuring tape, laser levels, plumb lines, suspension brackets, main tees, cross tees, ceiling tiles/panels, fasteners (screws, nails, anchors), cutting tools (utility knife, saws), power drills, jointing compounds, finishing tools, ladders and safety gear (gloves, goggles, helmets, dust masks, harnesses).	

Module 21: Install Prefabricated Ceiling Panels & Drywall

Mapped to ICE/CON/N0319, v1.0

Terminal Outcomes:

- Explain the advantages and applications of prefabricated ceiling panels.
- Demonstrate the installation process for various prefabricated ceiling materials.

Duration: 10:00	**Duration: 35:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Explain the types and characteristics of prefabricated ceiling panels and tiles. • Describe the selection criteria for materials and components based on project specifications and site conditions. • Identify the tools and equipment required for installation, including their functions and safe handling. • Explain the process of measuring and marking the ceiling to determine correct positioning. • Describe alignment techniques to ensure proper placement of ceiling panels and tiles. • Explain different fastening methods and materials used for securing panels or tiles. • Discuss the importance of maintaining even spacing and orientation during installation. • Explain cutting and trimming techniques for fitting panels or tiles around obstacles. • Explain the process of assessing the ceiling and wall condition before installation. • Identify different types and thicknesses of drywall sheets and their applications. • Describe the techniques for accurate measuring and cutting of drywall sheets to fit project specifications. • Explain the process of securing drywall sheets to ceiling or wall studs using appropriate fasteners. • Discuss proper spacing and alignment techniques for seamless drywall installation. • Explain joint sealing methods using joint compounds for a smooth finish. • Describe the importance of ensuring stability and durability in drywall	• Demonstrate the selection of appropriate materials and components based on site conditions and project requirements. • Show how to gather, inspect and safely use tools and equipment required for installation. • Demonstrate accurate measuring and marking of the ceiling for correct positioning of panels or tiles. • Show the process of positioning ceiling panels or tiles according to the design layout while ensuring proper alignment. • Demonstrate how to securely fasten panels or tiles to the ceiling framework using appropriate fasteners. • Show how to check and adjust the alignment and spacing of panels or tiles during installation. • Demonstrate the cutting and trimming process for fitting panels or tiles around obstacles while maintaining a clean edge. • Demonstrate how to assess the ceiling and wall conditions before installation. • Show the method of measuring and cutting drywall sheets to precise dimensions. • Demonstrate how to properly position and secure drywall sheets onto wall or ceiling studs using fasteners. • Show the process of checking spacing and alignment to ensure a seamless finish. • Demonstrate the application of joint compounds to seal joints and achieve a smooth surface.

installations.	
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Measuring tape, laser levels, plumb lines, marking tools (chalk lines, pencils), pre-fabricated ceiling panels/tiles, cutting tools (utility knife, saws), fasteners (screws, adhesives, clips), power drills, jointing compounds, finishing tools, drywall sheets, T-square, drywall saw, stud finder, plumb bob and safety gear (gloves, goggles, dust masks, helmets).	

Module 22: Install Structural Wall Panels and Insulated Partitions

Mapped to ICE/CON/N0320, v1.0

Terminal Outcomes:

- Describe the importance of structural wall panels in modern construction.
- Demonstrate installation techniques for different types of wall panels.

Duration: 05:00	**Duration: 10:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Describe methods for assessing work areas to ensure surfaces are suitable for installation. • Identify different materials and insulation types based on thermal and acoustic requirements. • Explain the selection and use of tools, fasteners and safety gear required for installation. • Explain the techniques for measuring and marking wall positions for accurate panel placement. • Describe alignment techniques for positioning wall panels in accordance with project design. • Explain different fastening methods and materials used to secure wall panels. • Discuss how to check and adjust panel alignment to meet design specifications. • Explain the positioning and securing techniques for insulated partition materials. • Describe different insulation materials and their thermal and acoustic properties. • Explain the importance of ensuring insulation materials are properly fitted without gaps or compression. • Discuss methods for securing partition frameworks and panels to maintain stability and alignment	• Show how to select appropriate materials and insulation types based on project needs. • Demonstrate the safe gathering and handling of required tools and equipment. • Demonstrate the process of measuring and marking walls for correct panel positioning. • Show how to position and align wall panels accurately according to design. • Demonstrate the use of fastening techniques to securely fix wall panels to the supporting structure. • Show how to check and adjust alignment to maintain project specifications. • Demonstrate the positioning and securing of insulated partition materials. • Show how to install insulation materials correctly within the partition framework. • Demonstrate the proper fitting of insulation materials to avoid gaps or compression. • Show the process of securing partition frameworks and panels for structural stability.
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Structural wall panels, insulated partition panels, insulation materials such as mineral wool, foam boards and fiberglass, measuring tape, chalk line, utility knife, power drill, screws, adhesives, fasteners, stud finder, plumb bob, laser level, clamps, pry bar and essential safety gear including gloves, goggles, dust masks, helmets and ladders.	

Module 23: Apply Waterproof Membrane Systems & Adhesive-Based Waterproofing

Mapped to ICE/CON/N0322, v1.0

Terminal Outcomes:

- Demonstrate waterproofing techniques using sheet and liquid membranes.
- Explain the importance of correct application to ensure long-term effectiveness.

Duration: 15:00	**Duration: 45:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Describe different types of waterproofing membranes (sheet and liquid) and their suitability for various surfaces. • Explain surface preparation techniques such as cleaning, sanding and priming to ensure proper adhesion of waterproofing membranes. • Describe the process of applying waterproofing membranes to ensure complete coverage without gaps or wrinkles. • Explain the importance of sealing edges, joints and seams to prevent water penetration. • Explain different types of adhesive-based waterproofing materials (coatings and sealants) and their applications. • Describe the process of applying adhesive waterproofing to ensure uniform coverage and proper bonding. • Explain how to prevent air pockets and inconsistencies during the application of adhesive waterproofing. • Describe proper sealing techniques for joints, seams and edges to ensure water resistance. • Explain the curing requirements for adhesive waterproofing materials and factors that impact their effectiveness.	• Demonstrate how to interpret work plans and specifications to determine waterproofing requirements. • Show the selection of appropriate waterproofing membranes based on surface type and project conditions. • Demonstrate the correct surface preparation techniques, including cleaning, sanding and priming. • Show the correct method for applying waterproofing membranes to achieve seamless coverage. • Demonstrate how to properly seal edges, joints and seams to prevent water penetration. • Show the curing process of waterproofing membranes and the impact of environmental conditions. • Demonstrate how to select and prepare adhesive-based waterproofing materials for different surfaces. • Show the application of adhesive waterproofing materials, ensuring consistent coverage and bonding. • Demonstrate techniques to prevent air pockets and ensure a smooth waterproofing layer. • Show proper sealing of joints, seams and edges to enhance waterproofing durability. • Demonstrate how to inspect the waterproofing application for quality assurance and compliance with project specifications.
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Sheet and liquid waterproofing membranes, primers, cleaning agents, brushes, rollers, trowels, heat guns, seam rollers, adhesive tapes, measuring tape, utility knife, chalk line, PPE (gloves, goggles, respirator), curing blankets, waterproofing coatings, sealants, caulking guns and surface preparation tools.	

Module 24: Inspect and Maintain Waterproofed Surfaces

Mapped to ICE/CON/N0323, v1.0

Terminal Outcomes:

- Describe inspection techniques to identify waterproofing failures.
- Demonstrate repair and maintenance methods for waterproofed surfaces.

Duration: 15:00	**Duration: 15:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Explain how to visually inspect waterproofed surfaces for signs of wear, damage and deterioration. • Describe common indicators of waterproofing failure, including cracks, bubbles, peeling and discoloration. • Explain how to assess areas prone to water ingress, such as joints, seams and edges. • Describe the methods for detecting hidden moisture, including mold, mildew and water stains. • Explain the use of testing equipment (e.g., moisture meters, water spray tests) to evaluate waterproofing integrity. • Explain how to identify areas requiring repairs or reapplication of waterproofing materials. • Describe the selection criteria for appropriate waterproofing materials and techniques based on system type. • Explain the correct methods for reapplying or replacing damaged waterproofing materials. • Describe proper sealing techniques for joints, seams and edges to prevent water infiltration. • Describe the procedures for testing repaired areas to ensure waterproofing effectiveness. • Explain how to advise clients or stakeholders on the expected lifespan and maintenance needs of waterproofing systems.	• Demonstrate how to conduct a visual inspection of waterproofed surfaces to identify signs of wear and damage. • Show how to assess critical areas such as joints, seams and edges for potential water ingress. • Demonstrate the use of moisture meters and water spray tests to detect hidden moisture and waterproofing failures. • Show how to document findings and report on the condition of waterproofed surfaces. • Demonstrate the identification of areas requiring waterproofing repairs or reapplication. • Show the selection and preparation of appropriate waterproofing materials for repairs. • Demonstrate the correct techniques for applying and aligning waterproofing membranes or adhesives. • Show how to properly seal joints, seams and edges to prevent water infiltration. • Demonstrate the application of touch-up coatings and sealants to deteriorated areas. • Show how to test repaired surfaces for waterproofing effectiveness.
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Moisture meters, water spray test equipment, sealants, waterproofing membranes, primers, brushes, rollers, trowels, caulking guns, utility knife, chalk line, PPE (gloves, goggles, respirator), heat gun, seam rollers, curing blankets and documentation tools (inspection forms, cameras).	

On-the-Job Training

Mapped to Interior Finisher, 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/N0302	**Prepare Surfaces for Painting**
Mandatory OJT duration (in Hours)	**15:00**
Terminal Outcomes:	
During the OJT period, the candidate will be able to: • Inspect painting surfaces for cracks, holes, dampness and unevenness and identify preparation needs. • Clean and sand surfaces using scrapers, sandpaper and power sanders to achieve smoothness. • Apply primers and fillers to correct surface defects and ensure uniformity. • Protect adjacent areas using masking tapes, drop sheets and coverings. • Verify readiness of the surface using touch and visual inspection before paint application.	
ICE/CON/N0303	**Paint Mixing and Preparation**
Mandatory OJT duration (in Hours)	**15:00**
Terminal Outcomes:	
During the OJT period, the candidate will be able to: • Mix paints, thinners, additives, binders and colourants as per manufacturer specifications. • Operate digital colour-matching equipment and spectrophotometers to match shades accurately. • Adjust viscosity and colour formulation to achieve uniformity across batches. • Label and document paint mixing ratios, batch codes and usage logs.	
ICE/CON/N0304	**Apply Paints Using Traditional and Airless Spray Techniques**
Mandatory OJT duration (in Hours)	**15:00**
Terminal Outcomes:	
During the OJT period, the candidate will be able to: • Apply paints using brushes, rollers and sponges to achieve a smooth and uniform finish. • Operate airless spray systems with correct nozzle selection, pressure control and spray angle. • Conduct touch-ups and double coats to achieve opacity and defect-free finish. • Flush and clean equipment after use and dispose of paint waste safely.	

ICE/CON/N0305	**Identify and Repair Common Painting Issues**
Mandatory OJT duration (in Hours)	**15:00**
Terminal Outcomes:	
During the OJT period, the candidate will be able to: • Detect painting defects such as peeling, blistering, flaking, fading, cracking and mildew. • Diagnose root causes and recommend corrective actions based on site conditions. • Perform rectification by sanding, patching, priming and repainting affected areas. • Maintain preventive maintenance and defect-rectification reports.	
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.	

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.	
ICE/CON/N0317	**Prepare Framework for False Ceiling Installation**
Mandatory OJT duration (in Hours)	**15:00**
Terminal Outcomes:	
During the OJT period, the candidate will be able to: • Mark ceiling levels and grid lines using laser level and plumb tools. • Cut and assemble framework sections using channels, angles and fasteners. • Fix framework components securely at correct spacing for load distribution. • Check framework for alignment, levelling and rigidity.	

ICE/CON/N0318	**Install Flush Jointed and Open Grid Ceiling Systems**
Mandatory OJT duration (in Hours)	**15:00**
Terminal Outcomes:	
During the OJT period, the candidate will be able to: • Install plasterboards and grid-based ceiling panels according to layout. • Reinforce joints using jointing compounds and tapes, ensuring smooth finishes. • Provide cut-outs for MEP services without damaging boards. • Correct misalignments and surface undulations.	
ICE/CON/N0319	**Install Prefabricated Ceiling and Drywall Systems**
Mandatory OJT duration (in Hours)	**15:00**
Terminal Outcomes:	
During the OJT period, the candidate will be able to: • Install prefabricated ceiling panels, drywall studs and boards as per manufacturer guidelines. • Fix insulation sheets inside partitions with secure support. • Create niches and openings for electrical, HVAC and plumbing services. • Finish joints using multi-layer compound application.	
ICE/CON/N0320	**Install Structural Wall Panels and Insulated Partitions**
Mandatory OJT duration (in Hours)	**15:00**
Terminal Outcomes:	
During the OJT period, the candidate will be able to: • Position and assemble wall panels on floor and ceiling tracks. • Install insulation boards using fixing systems and adhesives. • Ensure plumb alignment and panel joint stability. • Inspect partitions for fire, acoustic and thermal performance.	
ICE/CON/N0322	**Apply Waterproofing Techniques Using Membranes and Adhesives**
Mandatory OJT duration (in Hours)	**30:00**
Terminal Outcomes:	
During the OJT period, the candidate will be able to: • Clean, level and prime waterproofing areas before application. • Apply liquid, sheet, adhesive-based and elastomeric membranes using correct thickness. • Create slopes for water discharge and seal joints/penetrations. • Conduct pond test and repair leaks if detected.	
ICE/CON/N0323	**Inspect and Maintain Waterproofed Surfaces**
Mandatory OJT duration (in Hours)	**30:00**
Terminal Outcomes:	
During the OJT period, the candidate will be able to: • Inspect waterproofed surfaces for cracks, leakage, blistering and pinholes. • Perform corrective waterproofing around corners, drains and plumbing areas. • Record inspection, defects and corrective maintenance reports. • Recommend maintenance schedules and protective coatings.	

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"*, mapped to the Qualification Pack: "ICE/CON/Q0301, 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"*, mapped to the Qualification Pack: "ICE/CON/Q0301, 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