

Model Curriculum

QP Name:	**Interior Finisher**
	Electives: Painting
QP Code:	**ICE/CON/Q0301-SI001**
Version:	**1.0**
NSQF Level:	**4**
Model Curriculum Version:	**1.0**

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Training Parameters

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

Program Overview

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

Training Outcomes:

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

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

Compulsory Modules:

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

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

Elective Modules:

Elective 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 NOS Version: 1.0 NSQF Level: 4	**05:00**	**10:00**	**15:00**	**00:00**	**30:00**
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**

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.

On-the-Job Training

Mapped to Interior Finisher (Painting), 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.	

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 (Painting)"*, mapped to the Qualification Pack: "ICE/CON/Q0301-SI001, 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 (Painting)"*, mapped to the Qualification Pack: "ICE/CON/Q0301-SI001, 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