

Model Curriculum

QP Name:	**Construction Fabricator** **Electives: Woodworking**
QP Code:	**ICE/CON/Q0501-SI002**
Version:	**1.0**
NSQF Level:	**4**
Model Curriculum Version:	**1.0**

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Training Parameters

Sector	Construction		
Sub-Sector	Infrastructure Construction		
Occupation	Masonry/Shuttering Carpentry/Bar Bending/Fabrication		
Country	India		
NSQF Level	4		
Aligned to NCO/ISCO/ISIC Code	NCO-2015/7122.0601, NCO-2015/7112.0200, NCO-2015/7115.0201, NCO-2015/7213.0200, NCO-2015/7114.9900		
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	3 years of Relevant Industry Experience
	OR		
	3	8th Grade pass	6 years of Relevant Industry Experience
	OR		
	4	Previous relevant Qualification of NSQF Level 3	3 years of relevant experience
	OR		
	5	Previous relevant Qualification of NSQF Level 3.5	1.5 years of relevant 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	390 Hours		
Maximum Duration of the Course	390 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:

- Identify and classify construction materials, their properties and appropriate applications for civil works.
- Interpret construction drawings, dimensions and specifications for layout and execution.
- Apply occupational health, safety and environmental practices as per site standards.
- Demonstrate teamwork, communication and employability skills required for the construction industry.
- Use basic digital tools and documentation techniques for construction data and reporting
- Prepare masonry layouts and foundations with accurate alignment and levelling.
- Mix and apply mortar in correct proportions for different masonry applications.
- Construct brick, block and stone masonry walls maintaining plumb, bond and uniform joints.
- Build masonry staircases, corners and junctions as per design and safety norms.
- Apply plastering, rendering and finishing techniques for smooth and decorative surfaces.
- Install and maintain masonry paving systems ensuring slope, joint filling and surface finish.
- Use advanced masonry technologies like interlocking blocks and AAC systems for energy-efficient construction.
- Identify types of timber, joints and tools used for carpentry and formwork.
- Prepare and assemble wooden frameworks for doors, windows and structural elements.
- Install interior wooden partitions, panels and linings ensuring level and finish quality.
- Assemble, align and dismantle shuttering for concreting as per formwork design.
- Construct and install wooden structural or decorative features following dimensional accuracy.
- Plan fabrication tasks based on metal types, dimensions and structural drawings.
- Cut, bend and tie reinforcement bars as per bar bending schedules.
- Weld and assemble metal components ensuring correct joints and alignment.
- Apply protective coatings and surface treatments to prevent corrosion and enhance durability.
- Install metal cladding and structural components ensuring stability and insulation efficiency.
- Prepare, pour and compact concrete mixes ensuring uniform quality and proper curing.
- Execute concreting for beams, columns, slabs and footings maintaining alignment and finish.
- Carry out reinforced concrete works integrating rebar and formwork systems safely.
- Perform repair and restoration of concrete surfaces using appropriate materials and techniques.
- Construct and install precast concrete components following lifting and installation procedures.
- Cut, shape and assemble sheet metal components as per design and tolerance requirements.
- Operate advanced fabrication equipment for precision sheet metal and aluminium structures.
- Apply finishing, coating and surface treatments to achieve desired texture and protection.
- Conduct inspection and quality control checks to ensure dimensional accuracy in fabrication.
- Identify and assemble aluminium formwork panels and accessories as per layout.
- Install and secure aluminium formwork on site maintaining alignment and structural stability.
- Carry out concrete pouring, vibration and safe dismantling of aluminium formwork after curing.
- Demonstrate professional work ethics, environmental awareness and commitment to
- Demonstrate professional work ethics, environmental awareness and commitment to sustainable construction practices.

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/N0501: Identify construction building materials and components NOS Version: 1.0 NSQF Level: 4	**20:00**	**70:00**	**30:00**	**00:00**	**120:00**
Module 1: Introduction to the Construction Industry and the job role "Construction Fabricator"	05:00	00:00	00:00	00:00	05:00
Module 2: Identify construction building materials and components	15:00	70:00	30:00	00:00	115:00
ICE/CON/N0502: Follow Environmental, Health and Safety (EHS) Guidelines 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: 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**	**90:00**	**30:00**	**00:00**	**210:00**

Elective Modules:

Elective 2: Woodworking

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/N0508: Prepare and Construct Timber Frameworks NOS Version: 1.0 NSQF Level: 4	**10:00**	**15:00**	**05:00**	**00:00**	**30:00**
Module 12: Prepare and Construct Timber Frameworks	10:00	15:00	05:00	00:00	30:00
ICE/CON/N0509: Construct Wooden Frames for Structural Elements NOS Version: 1.0 NSQF Level: 4	**10:00**	**15:00**	**05:00**	**00:00**	**30:00**
Module 13: Construct Wooden Frames for Structural Elements	10:00	15:00	05:00	00:00	30:00
ICE/CON/N0510: Install Interior Wooden Partitions and Panels NOS Version: 1.0 NSQF Level: 4	**20:00**	**30:00**	**10:00**	**00:00**	**60:00**
Module 14: Install Interior Wooden Partitions and Panels	20:00	30:00	10:00	00:00	60:00
ICE/CON/N0511: Assemble and Dismantle Shuttering for Concreting NOS Version: 1.0 NSQF Level: 4	**10:00**	**15:00**	**05:00**	**00:00**	**30:00**
Module 15: Assemble and Dismantle Shuttering for Concreting	10:00	15:00	05:00	00:00	30:00
ICE/CON/N0512: Construct and Install Wooden Structural Features NOS Version: 1.0 NSQF Level: 4	**10:00**	**15:00**	**05:00**	**00:00**	**30:00**
Module 16: Construct and Install Wooden Structural Features	10:00	15:00	05:00	00:00	30:00
Total Duration	**60:00**	**90:00**	**30:00**	**00:00**	**180:00**

Module Details

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

Mapped to ICE/CON/N0501, v1.0

Terminal Outcomes:

- Explain the importance of Construction Industry.
- Describe the responsibilities and career opportunities of a Construction Fabricator.

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 a Construction Fabricator. • Discuss the skills and qualifications necessary for a career as a Construction Fabricator. • Identify various career opportunities available for a Construction Fabricator.	
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
NA	

Module 2: Identify construction building materials and components

Mapped to ICE/CON/N0501, v1.0

Terminal Outcomes:

- Explain the process of identifying different construction materials and components used in fabrication tasks.
- Demonstrate the methods for inspecting, verifying and organizing construction materials for fabrication.

Duration: 15:00	**Duration: 70:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Explain the types of construction materials (metals like steel, aluminium, alloys and non-metals like concrete, glass, wood and plastics) and their properties and applications in construction. • Describe the properties of construction materials, including strength, durability and environmental resistance and how they influence material selection. • Elucidate the role of material specifications and technical datasheets in identifying the correct materials for fabrication. • Identify different construction components, such as beams, columns, trusses and panels, based on drawings and specifications. • List the common construction material defects, such as cracks, rust, warping and how they affect material suitability. • Explain the different material certifications and standards (e.g., BIS, ASTM) and their relevance in ensuring material quality. • Describe the procedures for verifying material quality through visual inspection, physical testing and reviewing certifications. • Identify the importance of proper material storage and the safety precautions associated with material handling.	• Show how to identify various building materials (metals, non-metals) by inspecting their properties and uses. • Demonstrate how to check construction materials for defects like cracks, rust and warping using manual and visual inspection techniques. • Show how to verify material specifications by reviewing technical datasheets, product catalogues and construction drawings. • Demonstrate how to assess the physical condition of materials by comparing them against the required specifications. • Show how to organize and label materials according to type, size and intended use to facilitate efficient storage and handling. • Demonstrate the proper storage methods for different materials to prevent damage and contamination. • Show how to use measuring tools, such as rulers, micrometers and calipers, to check the dimensions of materials. • Demonstrate how to safely handle materials using equipment like forklifts, pallet jacks and trolleys during fabrication tasks.
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Micrometers, calipers, rulers, forklifts, pallet jacks, trolleys, safety gloves, safety shoes, material datasheets, product catalogues, technical specifications, measuring tape, weighing scales, label markers, storage bins, material certification documents and personal protective equipment (PPE) such as helmets, face shields and protective gloves	

Module 3: Workplace Safety and Health Compliance

Mapped to ICE/CON/N0502, 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/N0502, 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 12: Prepare and Construct Timber Frameworks

Mapped to ICE/CON/N0508, v1.0

Terminal Outcomes:

- Explain the principles of timber framework construction, including traditional and modern techniques.
- Demonstrate the ability to read and interpret construction drawings for timber frameworks.
- Show the process of selecting, preparing and treating timber for framework construction.
- Show how to construct timber frameworks using traditional and modern construction techniques.

Duration: 10:00	**Duration: 15:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Describe the types of timber used in framework construction and their properties. • Explain the classification of softwood and hardwood for structural applications. • Describe engineered wood products such as plywood, LVL (Laminated Veneer Lumber) and CLT (Cross-Laminated Timber). • Explain the principles of timber joinery, including mortise and tenon, lap joints and dowel joints. • Describe techniques for cutting, shaping and assembling timber frameworks. • Explain the importance of timber treatment for durability and weather resistance. • Describe how to read and interpret technical construction drawings for timber framework assembly. • Explain the structural integrity requirements for different types of timber frameworks. • Describe prefabrication techniques in timber construction for improved efficiency. • Explain the safe handling and usage of woodworking tools, including saws, drills and chisels. • Describe methods for reinforcing timber structures to improve load-bearing capacity. • Explain the environmental impact of timber construction and sustainable sourcing of wood materials. • Describe standards and best practices for timber framework construction.	• Show how to identify structural requirements and load-bearing specifications from construction drawings. • Show how to interpret different types of timber framework designs, including traditional, prefabricated and CLT structures. • Show how to analyze measurements, dimensions and specifications for framework assembly. • Show how to ensure alignment and accuracy of construction plans before material preparation. • Show how to determine the appropriate type of timber based on strength, durability and environmental conditions. • Show how to inspect timber for defects such as warping, knots and cracks. • Show how to cut, shape and size timber as per framework specifications using appropriate tools. • Show how to treat and coat timber to enhance durability and resistance to moisture, pests and decay. • Show how to assemble and reinforce joints using screws, nails, bolts, or adhesives. • Show how to measure and mark locations for beams, posts and supports according to drawings. • Show how to assemble framework structures using traditional joinery techniques such as mortise and tenon, lap joints and dowel joints. • Show how to secure framework components using manual nailing,

• Explain quality control measures in timber framework installation. • Describe occupational health and safety practices related to timber framework assembly. • Explain the fire resistance properties of different timber types and treatments. • Describe advanced timber framing techniques used in modern construction.	screwing and bolting methods. • Show how to use hand tools such as chisels, saws and drills for shaping and assembling timber parts. • Show how to ensure accurate spacing and reinforcement of framework components for stability. • Show how to install timber bracing and supports to enhance structural integrity. • Show how to inspect and correct any misalignment or structural inconsistencies in the framework. • Show how to use prefabricated timber components for faster and more efficient construction. • Show how to integrate engineered wood products such as plywood and LVL in framework assembly. • Show how to apply Cross-Laminated Timber (CLT) for structural strength and sustainability. • Show how to use digital tools such as laser levels and CAD-based measurements for precise framework installation. • Show how to install prefabricated connectors and fasteners for quicker and more secure assembly. • Show how to ensure proper alignment and weight distribution when working with large-scale prefabricated timber elements.
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Woodworking saws, chisels, drills, hammers, nails, screws, bolts, adhesives, measuring tapes, spirit levels, laser levels, framing squares, clamps, timber treatment solutions, prefabricated timber components, CAD software, power tools (circular saws, jigsaws, routers), safety gear (gloves, goggles, dust masks) and digital alignment tools.	

Module 13: Construct Wooden Frames for Structural Elements

Mapped to ICE/CON/N0509, v1.0

Terminal Outcomes:

- Explain the principles of constructing wooden frames for structural elements such as foundations, flooring, doors and windows.
- Demonstrate the ability to construct wooden frames using traditional and modern techniques.
- Apply prefabricated timber systems and CNC precision cutting techniques for efficient frame construction.

Duration: 10:00	**Duration: 15:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Describe the types of timber used for structural framing and their load-bearing properties. • Explain traditional joinery techniques such as mortise and tenon, dowel joints and half-lap joints. • Describe modern timber framing methods, including prefabricated and engineered wood systems. • Explain CNC machining and its application in precision cutting for wooden frames. • Describe installation techniques for wooden foundations, flooring, doors and windows. • Explain fastening systems such as nails, screws, bolts and adhesives for wooden structures. • Describe the importance of moisture resistance and protective coatings in timber construction. • Explain the use of digital tools for accurate measurement and alignment of prefabricated components. • Describe quality control measures in wooden frame construction.	• Show how to identify structural requirements for wooden frame foundations and flooring. • Show how to select appropriate timber based on strength, load-bearing capacity and environmental conditions. • Show how to measure, cut and assemble wooden beams, joists and subfloor components. • Show how to secure foundation frames using nails, screws, bolts, or brackets. • Show how to ensure accurate spacing and alignment of wooden floor joists to support load distribution. • Show how to install moisture barriers or protective coatings to prevent wood degradation. • Show how to reinforce connections using bracing or additional support elements. • Show how to conduct inspections to verify stability and structural integrity before installation. • Show how to select and prepare engineered wood products such as CLT and LVL. • Show how to assemble prefabricated timber frames using modular construction techniques. • Show how to apply advanced fastening systems such as metal connectors and adhesives for enhanced durability. • Show how to align and position prefabricated components using laser levels and digital measuring tools. • Show how to integrate prefabricated frames into structural elements with minimal modifications.

	• Show how to determine the dimensions and specifications of wooden door and window frames. • Show how to select high-quality timber suitable for frame construction. • Show how to use CNC machines for precision cutting and shaping of wooden components. • Show how to ensure accurate mortise and tenon joints, grooves and notches for seamless assembly. • Show how to assemble door and window frames using clamps, fasteners and adhesives. • Show how to align frames precisely within wall openings to prevent warping or misalignment. • Show how to install reinforcements such as weatherproofing strips and insulation materials. • Show how to conduct finishing operations such as sanding, sealing and varnishing for durability.
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Measuring tapes, framing squares, saws (hand saws, circular saws, jigsaws), chisels, hammers, drills, nails, screws, bolts, brackets, adhesives, clamps, prefabricated timber components, laser levels, CNC machines, weatherproofing strips, insulation materials, sanding tools, sealants and varnishes.	

Module 14: Install Interior Wooden Partitions and Panels

Mapped to ICE/CON/N0510, v1.0

Terminal Outcomes:

- Explain the principles and techniques for installing interior wooden partitions and panels for structural and decorative purposes.
- Demonstrate the process to set up, align and secure wooden partitions using appropriate materials and fastening methods.

Duration: 20:00	**Duration: 30:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Describe types of wood and engineered wood materials suitable for partitions and panels. • Explain measuring and marking techniques for accurate layout and alignment. • Describe fastening methods such as concealed clips, adhesives, nails and screws. • Explain soundproofing and insulation techniques for interior wooden partitions. • Describe finishing techniques including sanding, polishing and protective coatings. • Explain expansion and contraction properties of wood in different environmental conditions. • Describe safety precautions in handling and installing wooden components. • Explain tools and equipment used for cutting, fastening and finishing wooden partitions. • Describe structural reinforcement techniques for stability and durability. • Explain quality control measures for inspecting alignment, durability and aesthetics. • Describe sustainable wood sourcing and waste management practices in interior construction.	• Show how to select appropriate timber, plywood, MDF, or engineered wood for partition construction. • Show how to measure and mark partition dimensions using precision tools. • Show how to cut wooden sections using saws, routers and CNC machines for accuracy. • Show how to assemble and secure wooden partition frames with mortise and tenon, dowel, or screw joints. • Show how to integrate steel or aluminum reinforcements for enhanced durability. • Show how to align and fix partitions to walls, floors and ceilings using brackets, adhesives and mechanical fasteners. • Show how to install adjustable or removable wooden partitions for flexible space management. • Show how to integrate soundproofing and insulation materials within partition cavities. • Show how to check vertical alignment and structural stability before finalizing installation. • Show how to select and source high-quality wooden panels suited for interior applications. • Show how to prepare and treat wooden panels with sanding, priming, or moisture-proof coatings. • Show how to measure and cut panels to fit designated wall, ceiling, or partition surfaces. • Show how to install panels using concealed clips, adhesives, mechanical fasteners, or interlocking systems. • Show how to align and secure panels to maintain uniformity, stability and smooth finishing.

	• Show how to integrate acoustic panels for enhanced sound absorption in designated spaces. • Show how to incorporate decorative woodwork such as moldings, carvings, or laminated finishes. • Show how to apply expansion gaps to prevent warping due to temperature or humidity changes. • Show how to install fire-retardant or anti-bacterial coatings where required. • Show how to assemble modular wooden partition panels in workshop settings for on-site installation. • Show how to use prefabricated interlocking wooden sections for quicker assembly. • Show how to incorporate built-in storage or shelving units within partition designs. • Show how to align and install modular partitions with minimal on-site cutting or modifications. • Show how to integrate sliding, folding, or movable partitions for adaptable interior layouts. • Show how to sand and smooth wooden partitions and panels before applying finishes. • Show how to apply stains, paints, polishes, or sealants for enhanced durability and aesthetics. • Show how to integrate protective coatings for fire resistance, waterproofing, or anti-termite protection. • Show how to ensure even coating application using brushes, rollers, or spray techniques. • Show how to inspect final surface finish for defects, inconsistencies, or unevenness.
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Measuring tapes, framing squares, saws (hand saws, circular saws, jigsaws), routers, chisels, CNC machines, drills, screws, nails, adhesives, clamps, fasteners, brackets, priming and sealing tools, sanding tools, paintbrushes, rollers, spray guns, safety equipment (gloves, goggles, masks), soundproofing and insulation materials and decorative woodwork accessories.	

Module 15: Assemble and Dismantle Shuttering for Concreting

Mapped to ICE/CON/N0511, v1.0

Terminal Outcomes:

- Explain the principles and techniques for constructing, installing and dismantling formwork for concreting.
- Demonstrate the ability to assemble and secure wooden and prefabricated formwork systems.

Duration: 10:00	**Duration: 15:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Describe types of wood and engineered materials used in shuttering and formwork construction. • Explain properties of concrete, including setting time, curing requirements and load-bearing capacity. • Describe methods for measuring, cutting and assembling wooden formwork components. • Explain techniques for securing and stabilizing formwork for different concrete structures. • Describe prefabricated shuttering systems and their advantages in construction projects. • Explain methods for adjusting prefabricated shuttering to suit project specifications. • Describe common defects in formwork and their impact on concrete quality. • Explain handling, maintenance and storage of wooden and prefabricated formwork for reuse. • Describe types of release agents and their application in preventing concrete adhesion to formwork. • Explain tools and equipment used for cutting, assembling and dismantling formwork. • Describe different types of fasteners, connectors and supports used in formwork assembly. • Explain best practices for efficient dismantling to avoid damage to cured concrete. • Describe techniques for inspecting formwork for signs of damage or	• Show how to select appropriate timber, plywood, or engineered wood for formwork construction. • Show how to measure and cut formwork components to required dimensions using hand tools and power tools. • Show how to assemble wooden panels, beams and braces to create a sturdy framework for pouring concrete. • Show how to secure formwork components with nails, screws, or clamps to maintain shape and strength. • Show how to install bracing and support structures to prevent deformation during concreting. • Show how to position and secure wooden formwork for columns, beams, slabs and walls. • Show how to ensure proper alignment and leveling using spirit levels and measuring tools. • Show how to adjust and reinforce joints to prevent leakage or displacement of concrete. • Show how to apply release agents to the inner surfaces of the formwork for easy removal. • Show how to select and assemble modular prefabricated shuttering panels for rapid installation. • Show how to use aluminum, steel, or plastic-coated formwork for repeated usage. • Show how to integrate interlocking formwork systems for faster setup and dismantling. • Show how to adjust prefabricated panels to suit varying dimensions and design specifications. • Show how to remove temporary supports and fasteners systematically to avoid structural damage.

deterioration. • Explain factors affecting the reusability of shuttering materials.	• Show how to carefully detach wooden or prefabricated panels without chipping or cracking concrete. • Show how to clean and store reusable shuttering components for future use. • Show how to inspect formwork materials for wear and damage before reassembly.
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Measuring tapes, spirit levels, saws (hand saws, circular saws, jigsaws), chisels, hammers, drills, screws, nails, clamps, formwork fasteners, release agents, wrenches, pliers, power tools, braces, supports, prefabricated formwork panels, cleaning tools and safety equipment (gloves, goggles, helmets).	

Module 16: Construct and Install Wooden Structural Features

Mapped to ICE/CON/N0512, v1.0

Terminal Outcomes:

- Explain the properties of wood, selection criteria and treatment methods for durability.
- Demonstrate the construction and installation of wooden staircases, railings, beams and decorative frameworks.
- Show the woodworking techniques for accurate cutting, joining and securing of wooden structures.

Duration: 10:00	**Duration: 15:00**
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Describe basic properties of wood, including grain structure, hardness, moisture content and workability. • Explain classification of wood types: hardwoods (e.g., teak, oak, mahogany) vs. softwoods (e.g., pine, cedar). • Describe factors affecting wood selection for different structural applications. • Explain seasoning and treatment of wood to improve durability and resistance to moisture and pests. • Describe measurement tools and techniques for accurate wood cutting and assembly. • Explain methods for marking and layout for precision woodworking. • Describe different types of saws (hand saws, circular saws, band saws) and their applications. • Explain traditional woodworking joints such as mortise and tenon, dovetail, lap joint and tongue and groove. • Describe modern joinery techniques using adhesives, dowels and screws. • Explain CNC precision cutting and assembly techniques for high-accuracy joinery. • Describe fastening methods for securing structural wooden components. • Explain load-bearing properties of wooden elements and their applications. • Describe reinforcement techniques for wooden staircases, railings and	• Show how to select appropriate wood types for staircase treads, risers and stringers. • Show how to measure and cut wooden components according to staircase design and dimensions. • Show how to assemble and secure staircases using joinery techniques such as mortise and tenon or dovetail joints. • Show how to install supporting framework and reinforcements to ensure staircase stability. • Show how to measure and mark positions for railing posts, handrails and balusters. • Show how to cut and shape wooden components to match design specifications. • Show how to assemble and secure railings using wooden dowels, screws, or adhesives. • Show how to align and fasten balustrades to staircases or balconies with proper anchoring. • Show how to cut and join wooden beams using traditional and modern woodworking methods. • Show how to assemble and install wooden load-bearing structures for ceilings and partitions. • Show how to reinforce beams with metal brackets or engineered wood supports for additional strength. • Show how to integrate prefabricated wooden structural components for faster installation. • Show how to cut and shape wooden components for aesthetic and architectural designs. • Show how to assemble wooden frameworks for ceilings, archways and wall paneling. • Show how to install decorative wooden panels and moldings to enhance visual

beams. • Explain the integration of engineered wood products such as laminated veneer lumber (LVL) and cross-laminated timber (CLT). • Describe prefabricated wooden structural components for efficient installation.	appeal. • Show how to use CNC precision cutting for intricate and customized wooden designs.
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
Measuring tapes, marking gauges, spirit levels, saws (hand saws, circular saws, band saws, jigsaws), chisels, hammers, drills, screws, nails, clamps, wooden dowels, adhesives, mortising machines, CNC cutting machines, routers, sanders, wood planes, metal brackets, engineered wood products (LVL, CLT) and safety gear (gloves, goggles, dust masks, helmets).	

On-the-Job Training

Mapped to Construction Fabricator (Woodworking), 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/N0501	**Identify Construction Building Materials and Components**
Mandatory OJT duration (in Hours)	**30:00**
Terminal Outcomes:	
During the OJT period, the candidate will be able to: • Identify and classify construction materials (metals, non-metals, aggregates, concrete, wood, polymers) at an actual construction site. • Inspect materials for defects such as cracks, deformation, corrosion, improper curing, and dimensional inaccuracies. • Verify material specifications using datasheets, IS codes, labels, and supplier documentation. • Handle and store materials safely using site equipment like trolleys, forklifts, and racks. • Recognize structural components (beams, columns, trusses, panels) from drawings and match them with site materials. • Assist in site-level documentation of received materials, recording shortages and quality deviations. • Coordinate with storekeepers and site engineers for material issuance, tagging, stacking, and traceability.	
ICE/CON/N0508	**Prepare and Construct Timber Frameworks**
Mandatory OJT duration (in Hours)	**05:00**
Terminal Outcomes:	
During the OJT period, the candidate will be able to: • Interpret timber framework drawings by identifying dimensions, members, joints, and support details as per site requirements. • Select appropriate timber sections based on grade, moisture content, straightness, and load-bearing requirements. • Carry out measurement and marking using appropriate tools (tape, square, chalk line, spirit level) to prepare layout for frames. • Cut and shape timber components accurately using saws, chisels, planes, and power tools as applicable. • Assemble timber framework members using nails, screws, dowels, brackets, and joinery techniques as per PC requirements. • Install vertical and horizontal structural studs maintaining plumb, level, and alignment using levelling tools. • Ensure structural stability by fitting braces, noggings, and stiffeners as per instructions. • Inspect and correct defects such as warping, misalignment, gaps, improper connections, and surface damage.	

ICE/CON/N0509	**Construct Wooden Frames for Structural Elements**
Mandatory OJT duration (in Hours)	**05:00**

Terminal Outcomes:

During the OJT period, the candidate will be able to:

- Read construction drawings for wooden frames used in doors, windows, partitions, beams, and structural supports.
- Identify and select suitable timber (size, species, treatment, load rating) required for structural framing.
- Prepare frame components (studs, head plates, sill plates, jambs, braces) by cutting and planning to the required dimensions.
- Perform accurate joinery techniques such as lap joints, butt joints, mortise-tenon, and screw-fastened joints according to specifications.
- Assemble wooden frames ensuring dimensional accuracy, squareness, and rigidity using clamps and measuring tools.
- Install frames at site locations with correct anchoring to masonry, RCC, or metal structures using fasteners and brackets.
- Align and level frames vertically and horizontally using spirit levels, laser levels, plumb bobs, and wedges.
- Check for structural stability by ensuring proper support, bracing, and load path continuity.
- Apply surface preparation (sanding, edge finishing, priming) where required prior to finishing or installation.
- Conduct quality checks for uniform gaps, joint strength, verticality, alignment, and absence of surface defects.

ICE/CON/N0510	**Install Interior Wooden Partitions and Panels**
Mandatory OJT duration (in Hours)	**10:00**

Terminal Outcomes:

During the OJT period, the candidate will be able to:

- Assist in measuring and marking for interior wood partition layout.
- Handle wooden boards, studs, frames, and fasteners safely on-site.
- Support installation of wooden panels ensuring alignment and joinery correctness.
- Observe and assist in acoustic, fire-resistant, and decorative panel installation techniques.

ICE/CON/N0511	**Assemble and Dismantle Shuttering for Concreting**
Mandatory OJT duration (in Hours)	**05:00**

Terminal Outcomes:

During the OJT period, the candidate will be able to:

- Assist in measuring, cutting, and assembling timber shuttering components.
- Support installation of formwork for slabs, beams, and columns.
- Apply release agents under supervision to prevent concrete sticking.
- Help dismantle shuttering components safely without damaging concrete..

ICE/CON/N0512	**Construct and Install Wooden Structural Features**
Mandatory OJT duration (in Hours)	**05:00**
Terminal Outcomes:	
During the OJT period, the candidate will be able to: • Assist in fabrication of wooden frames, beams, and supports as per drawings. • Handle joinery components like dowels, adhesives, screws, and brackets. • Support installation of load-bearing wood structures on-site. • Participate in inspection of wooden components for warping, cracks, or defects.	

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)

Trainer Certification	
Domain Certification	**Platform Certification**
Recommended that the Trainer is certified for the Job Role: *"Construction Fabricator (Woodworking)"*, mapped to the Qualification Pack: "ICE/CON/Q0501-SI002, v1.0". The minimum accepted score is 80%.	Recommended that the Trainer is certified for the Job Role: *"Trainer (VET and skills)"*, mapped to the Qualification Pack: "MEP/Q2601, v3.0". The minimum accepted score is 80%.

Assessor Requirements

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

Assessor Certification	
Domain Certification	**Platform Certification**
Recommended that the Assessor is certified for the Job Role: *"Construction Fabricator (Woodworking)"*, mapped to the Qualification Pack: "ICE/CON/Q0501-SI002, v1.0". The minimum accepted score is 80%.	Recommended that the Assessor is certified for the Job Role: *"Assessor (VET and skills)"*, mapped to the Qualification Pack: "MEP/Q2701, v3.0". The minimum accepted score is 80%.

Assessment Strategy

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

1. **Assessment System Overview:**

   Assessment is done through ICES affiliated Assessment Agencies. Assessors are trained & certified by ICES after Training of Assessor (ToA) program. Assessments are conducted to gauge and assess the trainee's skill and knowledge competency in the specified areas.

   The assessment will have both theory, practical and viva components as per ratio specified in each NOS for **Construction Fabricator** 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 **Construction Fabricator** 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	7 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
BBS	Bar Bending Schedule
RCC	Reinforced Cement Concrete
AAC	Autoclaved Aerated Concrete

CLC	Cellular Lightweight Concrete
PVC	Polyvinyl Chloride
HDPE	High-Density Polyethylene
GI	Galvanized Iron
MS	Mild Steel
SS	Stainless Steel
FRP	Fiber Reinforced Plastic
HSS	High-Speed Steel
MDF	Medium Density Fibreboard
HDF	High Density Fibreboard
WBP	Waterproof Boiling Proof (Plywood Grade)
MR	Moisture Resistant
CP	Commercial Plywood
LVL	Laminated Veneer Lumber
OSB	Oriented Strand Board
CNC	Computer Numerical Control
MIG	Metal Inert Gas Welding
TIG	Tungsten Inert Gas Welding
SMAW	Shielded Metal Arc Welding
GMAW	Gas Metal Arc Welding
GTAW	Gas Tungsten Arc Welding
FCAW	Flux Cored Arc Welding
NDT	Non-Destructive Testing
UT	Ultrasonic Testing
RT	Radiographic Testing
PT	Penetrant Testing
MT	Magnetic Particle Testing
W/C Ratio	Water–Cement Ratio
OPC	Ordinary Portland Cement
PPC	Pozzolanic Portland Cement
ISMC	Indian Standard Medium Channel
ISMB	Indian Standard Medium Beam
ISJB	Indian Standard Junior Beam
CIS	Cast-in-Situ
PCC	Plain Cement Concrete
AFS	Aluminium Formwork System
WTF	Wall Tie Fixture
DFC	Deck Formwork Component

TFP	Tie Rod Fixing Pin
EHS	Environment, Health and Safety
SOP	Standard Operating Procedure
PPE	Personal Protective Equipment
TRA	Task Risk Assessment
JSA	Job Safety Analysis
QA	Quality Assurance
QC	Quality Control
HIRA	Hazard Identification and Risk Assessment
HPT	High Potential Task
BOQ	Bill of Quantities
DPR	Detailed Project Report
CAD	Computer-Aided Design
DWG	Drawing File Format
CL	Center Line
FGL	Finished Ground Level
FFL	Finished Floor Level
DL	Datum Level
RL	Reduced Level