

**SKILLS FRAMEWORK FOR MARINE AND OFFSHORE
TECHNICAL SKILLS & COMPETENCIES (TSC) REFERENCE DOCUMENT**

TSC Category	Marine Manufacturing					
TSC	Scaffolding					
TSC Description	Build work platforms using pre-fitted frames and staging materials to facilitate activities that require working aloft					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
		MAR-MMF-2010-1.1	MAR-MMF-3010-1.1	MAR-MMF-4010-1.1		
		Erect scaffolds for production activities according to scaffolding plans and safety requirements	Oversee the installation of scaffolds, ensure appropriate materials for construction are used and scaffolding projects are in compliance with regulatory requirement	Develop scaffolding plans by executing load analysis and testing the designs using marine engineering calculations or computer software and collaborate with the production department for implementation		
Knowledge		<ul style="list-style-type: none"> Roles and responsibilities of a marine metal scaffolder Types of marine metal scaffolds and their uses Materials for construction of platforms and frames Tools, equipment and personal protective equipment (PPE) used in scaffold erection and dismantling Procedures for setting up scaffolds for marine manufacturing and construction processes Safe working practices for setting up and working aloft Procedures for lockout tag out for scaffolding operations Safe rigging of suspended scaffolds Methods of measuring and plumbing 	<ul style="list-style-type: none"> Criteria for selection of scaffolds Material and work platform requirements for independent tied scaffold erections Workplace Safety and Health (Scaffolds) Regulations Scaffold register Types of scaffold inspection checklists Safe use and inspection of suspended scaffolds 	<ul style="list-style-type: none"> Roles and responsibilities of a marine metal supervisor Principles of structural and arrangement drawings Types of manufacturing processes that entail scaffolding in marine and offshore Multidirectional, tube and coupler and other types of scaffolding techniques Applications of different scaffolding techniques Methods of executing load analysis for scaffolds Material and resource requirements for scaffolding Conventions and standards used for scaffolding plan drawings Types of ships and rigs, terminologies and features 		

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<p>Abilities</p>		<ul style="list-style-type: none"> • Select appropriate locations to establish the foundation • Follow scaffolding plans closely • Select appropriate materials of construction of scaffolds • Identify damaged and/or defective materials • Provide safe means of access and dismount for personnel and equipment • Dismantle scaffolds and housekeeping 	<ul style="list-style-type: none"> • Conduct inspections for scaffold erection and dismantling • Set up and erect various types of scaffolds • Identify hazards and ways to ensure safety of scaffolds for erection and dismantling activities 	<ul style="list-style-type: none"> • Interpret structural and arrangement drawings to decipher scaffolding specifications and locations • Identify scaffolding techniques to be employed depending upon job, complexity, load and location • Carry out load analysis to identify materials and orientation for scaffolding machines to analyse design feasibility • Provide the manufacturing department with scaffolding plan sketches • Incorporate safeties in scaffold designs 		
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