

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

TSC Category	Quality Management					
TSC	Commissioning Coordination					
TSC Description	Conduct product performance examinations to conclude manufacturing and transit ships and rigs into operational modes					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
		MAR-QUA-2001-1.1	MAR-QUA-3001-1.1	MAR-QUA-4001-1.1		
		Execute work activities to commission marine equipment, ships and rigs according to established procedures	Coordinate commissioning of marine equipment, ships and rigs according to established procedures	Manage commissioning of marine equipment, ships and rigs according to established procedures		
Knowledge		<ul style="list-style-type: none"> Types of workplace health and safety (WSH) hazards related to commissioning work activities Commissioning procedures Types of circuit, equipment and component tests and inspections Methods of making corrective adjustments to circuits, equipment and components International standards, codes, and legislation pertaining to testing and commissioning 	<ul style="list-style-type: none"> Specifications of circuits, equipment and components Types of circuit, equipment and component diagrams Methods of implementing commissioning procedures Methods of verifying system faults Workplace safety and health (WSH) requirements related to testing and commissioning of marine equipment and systems Testing and commissioning documentation, reporting and close out requirements 	<ul style="list-style-type: none"> Methods of identifying commissioning requirements Methods of formulating testing and commissioning policies and frameworks Methods of reporting for commissioning International standards, codes and regulations for commissioning of marine equipment and ships 		
Abilities		<ul style="list-style-type: none"> Apply relevant WSH procedures for given work areas Carry-out visual inspections as required Install and check operation of circuits, 	<ul style="list-style-type: none"> Implement procedures and parameters for testing and commissioning with relevant departments Prioritise and sequence work to maximise efficiency and 	<ul style="list-style-type: none"> Determine commissioning requirements according to specifications, design drawings and regulatory requirements 		

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		<p>equipment, components and systems on-board</p> <ul style="list-style-type: none"> • Calibrate and adjust circuits, equipment, components and systems on board based on indicators • Execute replacement of faulty equipment, adjust and secure them in accordance with manufacturer specifications and organisation procedures 	<p>effectiveness of testing and commissioning</p> <ul style="list-style-type: none"> • Obtain materials, tools, equipment and testing devices needed for commissioning of marine and offshore circuits, equipment, components and systems • Allocate trade-specific tasks in accordance with established procedures • Check the compliance of trade-related tasks against job requirements • Identify defects and malfunctions from testing and commissioning results with relevant guidelines • Verify system and design faults using appropriate technical information, fault-finding and diagnostic techniques to identify circuits, equipment and components irregularities and non-conformances • Identify follow-up actions to identified irregularities and non-conforming circuits, equipment or components 	<ul style="list-style-type: none"> • Formulate testing and commissioning policies and parameters • Review testing and commissioning procedures to ensure compliance with requirements and specifications • Review commissioning test results • Verify commissioning documentation in accordance with organisation requirements • Verify tagging of faulty or replaced equipment and dispatch to maintain equipment spares • Verify completeness of final documentation and handover of fully operational equipment to approved personnel 		
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