

**SKILLS FRAMEWORK FOR SEA TRANSPORT
TECHNICAL SKILLS AND COMPETENCIES (TSC) REFERENCE DOCUMENT**

TSC Category	Systems Engineering					
TSC	Systems Integration					
TSC Description	Realise the system-of-interest by progressively combining system elements in accordance with architectural design requirements and the integration strategy					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
			STP-SYS-3004-1.1	STP-SYS-4004-1.1	STP-SYS-5004-1.1	
			Assist in sub-systems integration and perform systems verification and validation activities to identify non-conformance	Integrate sub-systems in in accordance with requirements	Establish systems integration strategies and systems integration sequence and procedures	
Knowledge			<ul style="list-style-type: none"> Systems integration activities Documentation methods for systems integration Systems verification and validation plans Methods to verify and validate systems Process of preparing verification and validation environment Types of anomalies or conformance Types of systems verification outcomes Systems verification and validation process Components of systems verification reports 	<ul style="list-style-type: none"> Systems integration activities Types of work products from systems integration activities Methods to validate lower-level systems Types of corrective action for systems conformance 	<ul style="list-style-type: none"> Systems integration strategy Systems integration sequence and procedures System integration enabling products Components of systems integration plans Configuration documentations System validation plans 	
Abilities			<ul style="list-style-type: none"> Perform preparatory tasks for systems verification and validation Perform systems verification and validation 	<ul style="list-style-type: none"> Validate lower-level systems Assemble and integrate sub-systems Review systems verification and validation plan 	<ul style="list-style-type: none"> Establish the systems integration strategy Establish systems integration sequence and procedures Review specification and configuration baselines 	

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			<ul style="list-style-type: none"> • Identify verification and validation anomalies or conformance • Document systems verification and validation findings 	<ul style="list-style-type: none"> • Verify the readiness of the systems verification environment • Analyse systems verification and validation outcomes • Recommend corrective actions for systems conformance 	<p>against systems verification tests</p> <ul style="list-style-type: none"> • Review systems verification and validation outcomes, anomalies and non-conformances • Verify appropriateness of corrective actions to ensure systems conformance 	
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