

Subsea Engineering Competency Profile

SUBSEA ENGINEERING FUNDAMENTALS	GSE-001
This competency demonstrates a subsea engineer understands their role in providing engineering services as part of a wider team, in relation to the lifecycle of subsea infrastructure.	

ELEMENT OF COMPETENCE	WHAT THIS COMPETENCE MEANS IN PRACTICE	INDICATORS OF ATTAINMENT
Working knowledge of subsea components, their functions, their design codes and how they fit together.	Can describe key engineering design considerations for subsea infrastructure	Refer to only as many Indicators of Attainment as you need to demonstrate the Element of Competence Has applied their knowledge successfully to subsea engineering work scopes
Working knowledge of the interaction between subsea infrastructure, the environment and interconnected elements.		
Knowledge of the role of subsea engineers at each lifecycle phase including: <ul style="list-style-type: none"> • Concept development • Design engineering • Fabrication and acceptance testing • Construction and installation • Commissioning • Operations and integrity management • Decommissioning / Abandonment 	Can describe the key responsibilities of a subsea engineer over the lifecycle of the subsea infrastructure	Has worked with other engineering disciplines within a project to deliver a successful outcome.

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<p>Knowledge of key considerations at each stage of the project lifecycle including:</p> <ul style="list-style-type: none">• Health, safety and environment• Applicable Codes, Standards and Regulations• Economics, CAPEX vs OPEX• Schedule• 3rd party stakeholder interests	<p>Can identify key project drivers impacting the subsea infrastructure over its lifecycle</p>	<p>Has demonstrable project experience in at least two of the lifecycle phases of a subsea system.</p>
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