



Subsea Engineering Competency Profile



SUBSEA ENGINEERING FUNDAMENTALS	GSE-001
<p>This competency demonstrates a subsea engineer is able to solve diverse problems, develop and apply new engineering practices, apply leadership and management skills, while pursuing engineering opportunities in a holistic way, taking environmental, community and social issues into account.</p> <p>The professional subsea engineer understands their role in providing engineering services and leadership as part of a wider team, in relation to the lifecycle of subsea infrastructure.</p>	

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



ENGINEERS
AUSTRALIA

Subsea Engineering Competency Profile



ELEMENT OF COMPETENCE	WHAT THIS COMPETENCE MEANS IN PRACTICE	INDICATORS OF ATTAINMENT
<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>Refer to only as many Indicators of Attainment as you need to demonstrate the Element of Competence</p> <p>Has demonstrable project experience in at least two of the lifecycle phases of a subsea system.</p>