



Subsea Engineering Competency Profile



ENVIRONMENTAL ENGINEERING FUNDAMENTALS

DE-003

This competency demonstrates a subsea engineer has working knowledge of environmental engineering factors and processes during the relevant lifecycle phases of a subsea development project.

ELEMENT OF COMPETENCE	WHAT THIS COMPETENCE MEANS IN PRACTICE	INDICATORS OF ATTAINMENT
<p>Working knowledge of the principles that underpin legislation, regulations, and policies for environmental approvals, including:</p> <ul style="list-style-type: none"> • Permitting and licence processes • The rights of landowners or users, native title claimants and titleholders, and offshore petroleum permit/licence holders • Heritage management and protection • Emergency response and incident response activities 	<p>Capable of applying knowledge of the environmental approvals process and its potential to impact subsea design, construction methodology, schedules and costs.</p> <p>Understands the environmental and heritage implications of facility design choices.</p> <p>Capable of making or contributing to decisions and/or recommendations related to subsea field design and construction methodologies that will positively contribute to successfully obtaining environmental and heritage approvals.</p>	<p>Refer to only as many Indicators of Attainment as you need to demonstrate the Element of Competence</p> <p>Can describe the legislated environmental approvals required for subsea production systems to be constructed, operated and/or abandoned</p> <p>Has contributed technical input and/or been involved in a subsea development project that included environment and/or heritage approvals</p>
<p>Working knowledge of:</p> <ul style="list-style-type: none"> • requirement for an environmental management plan and its impact on projects and operations • impact of environment and heritage issues on production operations and how they are managed • environment, heritage, aesthetic, third party infrastructure and other stakeholder concerns that influence design, construction, and operations • The key role that consultation plays throughout the lifecycle of a subsea production system 	<p>Capable of:</p> <ul style="list-style-type: none"> • coordinating the development and/or implementation of environmental management plans and/or environmental management systems • ensuring that environmental and heritage impacts and risks and associated approvals processes are effectively managed throughout the lifecycle of a subsea development project 	<p>Has applied elements of an Environmental Management System and/or contributed to the development, modification, implementation, and/or application of an Environmental Management Plan in a design, construction or operation phase.</p> <p>Has identified and conveyed the significance of potential environmental and heritage issues (risks and impacts) that affect a subsea development and methods to manage these issues across the lifecycle of the subsea system</p>



ENGINEERS
AUSTRALIA

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ELEMENT OF COMPETENCE	WHAT THIS COMPETENCE MEANS IN PRACTICE	INDICATORS OF ATTAINMENT
Working knowledge of emergency response and incident management activities.	Capable of: <ul style="list-style-type: none">• Defining the processes and procedures to be executed in support of emergency response, crisis management, and oil spill response activities• Providing support to an Incident Management Team or Emergency Response Team during the response to an incident	Refer to only as many Indicators of Attainment as you need to demonstrate the Element of Competence Has acted as a member of, or provided support to an Oil Spill Response Team, Incident Management Team or Emergency Management Team