



Subsea Engineering Competency Profile



PRE-COMMISSIONING AND COMMISSIONING FUNDAMENTALS

PCC-001

This competency demonstrates that the subsea engineer has sufficient knowledge to effectively and successfully interface with or work within a team performing the planning, and execution of system pre-commissioning, commissioning and start-up of production.

Pre-commissioning includes all activities undertaken during installation and tie-in to prepare systems for production.

Commissioning includes the verification of functionality that cannot be undertaken prior to production.

ELEMENT OF COMPETENCE	WHAT THIS COMPETENCE MEANS IN PRACTICE	INDICATORS OF ATTAINMENT
<p>Working Knowledge of:</p> <ul style="list-style-type: none"> ● Piping & Instrument Diagrams (P&IDs), Cause & Effects (C&E) Tables and System Diagrams ● Permit to work and Isolations ● International and Company Standards applicable to pre-commissioning, commissioning and start-up ● Limitations and controls on simultaneous operations (SIMOPS) ● HAZOP, HAZID and Risk Assessment ● Operability Review ● Role of production supervisors / operators/technicians ● Safeguards on temporary equipment ● Management of Change 	<p>Understands system limits, specification breaks and functionality from P&IDs/C&Es including the effect of changes to flow paths, under/over pressure, alarm and trip functionality.</p> <p>Understands the processes and procedures associated with the site permit to work system. Can raise permits, conduct risk reviews and implement isolations.</p> <p>Can:</p> <ul style="list-style-type: none"> ● contribute to pre-commissioning and/or commissioning HAZOP, HAZID and risk assessments. ● contribute to pre-commissioning and/or commissioning operability reviews. ● write pre-commissioning or commissioning plans and procedures. ● identify if temporary equipment has the specified safeguards. ● identify the need for change and raise change requests 	<p>Refer to only as many Indicators of Attainment as you need to demonstrate the Element of Competence</p> <p>Has participated and contributed to pre-commissioning and commissioning risk assessments and/or operability reviews.</p> <p>Has written pre-commissioning and/or commissioning plans and procedures.</p> <p>Has witnessed and approved 3rd party vendors on site undertaking pre-commissioning and/or commissioning tasks.</p> <p>Has prepared and presented change requests according to Company procedures.</p> <p>Can describe in detail the impact and constraints of subsea facilities commissioning on topsides process facilities and vice versa</p>



ENGINEERS
AUSTRALIA

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ELEMENT OF COMPETENCE	WHAT THIS COMPETENCE MEANS IN PRACTICE	INDICATORS OF ATTAINMENT
Working Knowledge of: <ul style="list-style-type: none">• Handover documentation• Systems Completion Management System	Ensures site records and certification meet the requirements of the Handover Dossier and/or Completions Management System	Refer to only as many Indicators of Attainment as you need to demonstrate the Element of Competence Has transferred site records and certificates to the Handover Dossier or Completions Management System