



# Subsea Engineering Competency Profile



<b>SUBSEA WELL INTERVENTION ELECTIVE</b>	<b>DE-006</b>
<p>This competency demonstrates a subsea engineer has acquired and applied knowledge of subsea well intervention principles, equipment and operations for subsea well intervention, including intervention from a light well intervention vessel.</p>	

<b>ELEMENT OF COMPETENCE</b>	<b>WHAT THIS COMPETENCE MEANS IN PRACTICE</b>	<b>INDICATORS OF ATTAINMENT</b>
		Refer to only as many Indicators of Attainment as you need to demonstrate the Element of Competence
Working knowledge of appropriate statutory, regulatory, industry and customer requirements for subsea well intervention.	Applies appropriate engineering and industry best practice or recommended practices for preparation, testing and execution of subsea well intervention.	Has participated in a 3 <sup>rd</sup> party verification (DNV-GL, Lloyds, ABS, etc.) or client safety and operational review of a subsea well intervention program.
Working knowledge of safety case requirements and emergency response plan for subsea well intervention.	Can contribute to operational aspects of a safety case. Can identify and describe safeguards against emergency situations that could arise such as hydrocarbon release, DP drive off or drift off, loss of power, loss of communications, and dropped objects.	Has contributed to developing a safety case.  Has participated in HAZID and HAZOP reviews of subsea well intervention procedures.
Working knowledge of well barrier requirements and proving of isolations.	Can write or review an isolation testing procedure.	Has written or reviewed operational intervention procedures.
Working knowledge of subsea tree systems and well completions	Can describe completions used for horizontal and vertical subsea tree systems and down-hole completion configurations.  Has undertaken specific training on subsea well completions for horizontal and vertical subsea tree systems.	Has three years working on subsea tree systems and down-hole completions, of which at least 1 year was on an offshore rotation.
Knowledge of well intervention activities such as; <ul style="list-style-type: none"> <li>● Wireline set and/or retrieve plug/s or straddles</li> </ul>	Can describe and document these well intervention activities, their application and limitation.	Has participated in drafting or reviewing procedures for at least three of these intervention activities.



ENGINEERS  
AUSTRALIA

# Subsea Engineering Competency Profile



<b>ELEMENT OF COMPETENCE</b>	<b>WHAT THIS COMPETENCE MEANS IN PRACTICE</b>	<b>INDICATORS OF ATTAINMENT</b> Refer to only as many Indicators of Attainment as you need to demonstrate the Element of Competence
<ul style="list-style-type: none"><li>• Calliper survey or well bore camera survey</li><li>• Safety valve or gas lift valve change-out</li><li>• Zonal isolation</li><li>• Re-perforation</li><li>• Scale removal</li><li>• Well Control and Well Kill</li></ul>	Can describe and document Emergency Response for Subsea Well Intervention activities	
Working knowledge of intervention techniques on subsea wells such as; <ul style="list-style-type: none"><li>• Slick-line</li><li>• Electric-line</li><li>• Coiled tubing</li></ul>	Can describe and document these intervention techniques and their applications and limitations.	Has participated in the selection or definition and/or drafting of intervention procedures for at least two of these subsea well intervention techniques.