### Subsea Engineering Competency Profile

#### PROJECT MANAGEMENT FUNDAMENTALS

This competency demonstrates a Subsea Engineer has an understanding of the key project management principles that support successful delivery of subsea engineering projects.

This competency enables a Subsea Engineer to proactively manage the delivery of a specific element of a subsea project during any phase in the project life cycle.

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| Working knowledge of the following project management topics:  
- Project life-cycle  
- Project scope definition  
- Project Execution Plan  
- Basis of Design  
- How HSE requirements are implemented across the project life cycle.  
- How HSE factors can impact work plans, schedule and budget  
- How quality requirements are implemented across the project life cycle.  
- Estimating and budget control.  
- Planning and schedule management.  
- Contingency plans and procedures  
- Supply chain management.  
- Interface management.  
- Risk management.  
- Organisational requirements.  |
| Understands the importance, the required outcomes and the relationship between the key phases involved in delivering a subsea project:  
- Concept  
- Select  
- Define  
- Execute  
The ability to interpret the requirements presented in a scope of work and to extract the key data required to prepare the following project management deliverables:  
- Project Execution Plan  
- Basis of Design  
- Project Schedule  
- Project Budget.  |
| This competency shall be demonstrated by the engineer being able to discuss the importance of each of the listed elements when delivering a subsea project.  
- The engineer will have experience in two or more of the project phases as a project manager  
- The engineer will also be able to cite project roles where at least half of the listed competency elements have been successfully applied to delivery of a project. |
### Element of Competence

- Internal and external communication.
- Meeting protocols.
- Action tracking.
- Reporting protocols.
- Lessons learnt

### What this Competence Means in Practice

Understands the importance of:
- Project HSE Plan
- Project Quality Plan
- Contingency planning across each project phase

Understands the supply chain process including:
- Contracting strategy options
- Tender preparation and evaluation
- Commercial and contractual aspects of the tender and awarded contracts

Can identify the interfaces that are important to the successful delivery of the project.

Can apply the principles of risk management to a project to ensure that all identifiable risks with an unacceptable consequence are eliminated, prevented or reduced to ALARP.

Can develop a resource plan based on the requirements of the scope of work.

Understands internal and external reporting requirements and the importance of action tracking.

Can coordinate and run effective meetings.

Can prepare clear and concise reports.

Understands the lessons learnt process, the benefits of reviewing history and recording current events.

### Indicators of Attainment

Refer to only as many Indicators of Attainment as you need to demonstrate the Element of Competence.