Subsea Engineering Competency Profile

FIELD DEVELOPMENT PLANNING ELECTIVE	FDP-002
This competency demonstrates a subsea engineer has a comprehensive understanding of project objectives and how they cascade down to influence the subsea system architecture. The subsea engineer will be able to engage and influence stakeholders across a broad range of technical and non-technical disciplines. The subsea engineer will adapt and guide the evolution of the development architecture to best meet the broader project objectives and articulate subsea engineering implications in the context of the overall development.	

ELEMENT OF COMPETENCE	WHAT THIS COMPETENCE MEANS IN PRACTICE	INDICATORS OF ATTAINMENT Refer to only as many Indicators of Attainment as you need to demonstrate the Element of Competence
Expert knowledge of: • A range of industry-proven field development architectures • Methods and strategies for optimising system architecture considering CAPEX, OPEX, schedule, technical solution maturity, operability, reliability, availability, maintainability, constructability, HSE and decommissioning • Defining the sequencing of a project and the implications on key project drivers • Defining the sequencing of multiple projects across a field development's life and the implications on system architecture. • The drivers for successful interface management with a diverse range of stakeholders • Delivering all subsea aspects of a successful project basis of design (BoD)	Can guide the development of field architecture to meet project objectives Can rapidly prioritise important decisions which will have the greatest impact on project objectives Can lead negotiation, engagement, facilitation and solution optimisation within organisational constraints	Has worked on 2 or more field development concept studies leading a particular engineering discipline Has experienced a design phase and at least one of the following stages: • Fabricate / Manufacture • Installation • Operate Has driven the successful resolution of interfaces on more than one project between a diverse range of stakeholders

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Working knowledge of: • legislative and fiscal frameworks for projects • issues, complexities and drivers for all related offshore engineering disciplines • Resource evaluation and how to optimise and assure production • the roles and drivers of the supply chain contributors and influences on contracting strategies	Can respond to evolving project requirements particularly during concept select phase to maximise project safety, environment, technical and commercial outcomes through effective leadership and communication with both internal and external stakeholders	Has worked in at least 2 different stakeholder groups within the subsea industry, including regulators, certifying bodies, operators, engineering consultants, vendors and installation contractors