

# SYLLABUS

## DECOMMISSIONING OF OIL AND GAS STRUCTURES AGENDA

### Decommissioning of Oil and Gas Structures

#### UNDERSTANDING THE 'KEY ENABLERS' FOR DECOM

- Transitional management capability – the 'operational' to 'decommissioning' interface.
- Understanding decom requirements and time horizons for projects.
- Categorising decom operational phases – what needs to continue to operate/what needs to be adapted or modified during/for decommissioning, what can be removed immediately/shutting shown of redundant systems.
- Identifying 'commonality' from the project perspective (document control/ management, change order processes).
- Financial capability – affordability/ funding.
- Regulatory compliance.
- Managing the 'transition phase' from operations to CoP
- The facility itself – design/location
- Site restoration/clean up (if applicable)
- Physical dismantling and removal

#### LEGISLATION

- The IMO
- The London Convention
- OSPAR
- UNCLOS
- MARPOL

#### DECOM DECISION MAKING STRATEGIES

- Geographical location – water depth/weather
- Supporting infrastructure
- Benchmarking
- Due diligence process
- **CLASS EXERCISE**
- Risk/uncertainty assessment

#### PROJECT MANAGEMENT OF DECOM

- Decommissioning is not simply reverse engineering
- Preparation and planning
- Defining pre and post operation activities
- The decom project scope
- **CLASS EXERCISE**
- Optimising people and resources
- Close out/handover
- Knowledge management – capturing 'lessons learned'

#### STAKEHOLDER ENGAGEMENT, COMMUNICATION AND MANAGEMENT

- Identification and classification of stakeholders
- The stakeholder communication plan – the supreme importance of keeping stakeholders informed
- **CLASS EXERCISE**
- Aligning competing positions/interests
- **CASE STUDY: The Brent Spar Case**

#### TECHNOLOGY INNOVATION – A DECOM ENABLER?

- Enhanced safety management/practices
- Early innovation adoption – benefits assessment
- Tackling facility specific problems utilising

innovative technology

- Identification/ assessment of benefit through R&D initiatives
- <https://www.arup.com/news-and-events/report-identifies-new-innovation-guidance-for-north-sea-decommissioning>
- **CASE STUDY:** <https://www.youtube.com/watch?v=bBXilUSCrLo>

#### DISPOSAL – GENERATING AND ASSESSING OPTIONS

- Partial/complete removal
- Deep water disposal – Reef/ marine habitat creation?
- Towed to dry dock for cutting up
- Other potential uses in situ or elsewhere?
- **CLASS EXERCISE**

#### MATERIAL DISPOSAL AND WASTE MANAGEMENT

- Waste management/waste management options (i.e., reuse or recycle? Any acceptance criteria that must be met?)
- Any decontamination – early identification of potentially hazardous waste
- Managing waste inventory
- Infrastructure for handling/transportation/ interim storage
- On-site capability?
- Assessment of supply chain requirements/ capabilities
- Decommissioning logistics

#### OPTIMISING THE DECOM SUPPLY CHAIN

- Form of contract to be utilised for decommissioning
- Risk sharing
- Performance related incentives and LDC's/EOT's related to the contract

#### THE ENVIRONMENTAL DIMENSION

- <https://www.youtube.com/watch?v=N2NpAlbBRLw>
- Engagement with Environmental Regulators
- Environmental Impact Assessments (EIA's)
- Dealing with Asbestos and other hazardous material/ substances
- Strategies for minimising the potential for environmental damage