

# OFFSHORE SUPPORT INDUSTRY - Syllabus

## AIM

To ensure a thorough knowledge and understanding of the offshore support industry

To develop relevant communication skills

## VESSELS

- Origins and influences on offshore vessel design, emergence of dedicated industry needs, relevance of differing geographic requirements
- Vessel types and design, differing characteristics and equipment requirements, evolution in response to changing market requirements, effect of environmental issues
- Fleet profiles/development, global geographic distribution of industry influence, reasons for development of specialist sector skills for vessel design and construction

## OIL AND GAS BUSINESS

- Exploration and related activities including surveying requirements and drilling activities, Jack-up rigs, semi-submersibles, drillships, tender rigs
- Construction relating to installations, platforms, pipelines, umbilicals, wellheads and infrastructure, risers, moorings and associated requirements
- Production and platforms (fixed and floating), FPSOs, FSUs, offtake/loading buoys, shuttle tankers and other production phase units, production drilling, field enhancement
- Maintenance and de-commissioning work, other related tasks and issues

## WORLD REGIONAL MARKETS

- Breakdown of regional markets, geographic coverage, relevance of vessel types and numbers, effects of remote locations
- Regulatory regimes, cabotage and crewing aspects
- Geographic influences, effect of regional/local conditions
- Political aspects, environmental issues

## CHARTERING MARKETS

- Supply and demand, factors affecting the markets, global and local influences, effects of fiscal regimes, political, national and other influences, subletting
  - Spot and term markets, relevance and optimal use, variations in commercial and operational practices
  - Role of the broker; methods of working, legal, tactical and ethical aspects, differing markets, sale & purchase, newbuilding, bareboat, lease purchase, scrapping
  - Types of charterers and owners, contractors and logistics companies as principals
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## **WORKSCOPES**

- Runs and scope of work, capabilities of vessels and their systems, IMO requirements
- Cargoes and specialised requirements/differing work roles, pipe carrying, anchor handling, towage and salvage, support work, standby duties, survey work, subsea work, diving support, ROV support, heavy lift, rig moves
- Marine logistics

## **OFFSHORE CONSTRUCTION**

- Pipeline installations – rigid/flexible, risers/umbilicals, cable installation
- Accommodation units
- Platform installation, heavy lift/derrick barges and other types
- FPSO installations, mooring systems, suction anchors, subsea manifold/template installations
- Wellhead installations and subsea infrastructure
- Alongside mooring, DP, mooring systems, gangway connections

## **CONTRACTS & COMMERCIAL ASPECTS**

- Contract features, maintenance days, termination provisions, substitute vessels, liquidated damages, sub-letting, profit share mechanisms
- The Knock-for-Knock principle
- Indemnities, hold harmless agreements
- Charter forms used, industry charter forms available, relevant differences, other contracts

## **HSE & SECURITY**

- HSE environment, safety management
- Legislative requirements, compliance procedures, security issues and requirements
- Hazardous cargoes, categories, characteristics
- Vessel audits, industry standard format, surveys, incident reporting

## **OSV MANAGEMENT & OPERATIONS**

- The nature of OSV management
- Propulsion systems, anchor handling, cargo handling systems
- Stowage of dry and liquid bulk products, tank cleaning, deck cargoes, special handling and hazardous cargoes
- Technical developments, vessel improvements, environmental changes

## **GENERAL**

- Factors for change in the offshore industry, technology, vessel size and design, environmental effects and legislation
  - Taxation, crewing and experience levels, insurance
  - Offshore industry terms and abbreviations
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