TRANSFERRING KNOWLEDGE TO THE NEXT GENERATION

Industry Training courses, modules covering: Well Integrity, Subsea Facilities to Floating Production Systems, Marine infrastructures.
CHARLES REITH,
MARINE AND SUBSEA ENGINEER

SUBSEA EXPO 2018

► Asset and Integrity Management
► Knowledge Transfer
► Subsea Well Integrity
► Inspection and Maintenance
► Interface with Subsurface Assets

30 YEARS EXPERIENCE
IN MARINE & SUBSEA ENGINEERING

Expert In Manufacturing, Repairs,
Subsea Installation And Asset Life Cycle Maintenance

Working with BP, Premier Oil, TOTAL, Gazprom, Maersk
Oil, ENI, Qatar Petroleum
FULL LIFECYCLE ASSET & INTEGRITY MANAGEMENT

Training courses, modules of subsea well systems to subsea facilities, marine infrastructure assets and floating production systems

KEY TOPICS

- Well Integrity (Insight to Norsok D-010)
- Inspection
- Maintenance + Repairs
- Class Surveillance on FPSO’s/FLNG facilities
- Condition Performance Monitoring, awareness of BSEE Regulations + Well Control Rules
- FMECA & RAM Analysis data
- CMMS Data, Asset Integrity Database
- DNVGL-RP-0002 Integrity Management of subsea production systems
- API-RP-17N, 17G enhancements and other applicable codes, guidelines
Module: CONDITION MONITORING

Enhancing equipment availability and rationalizing (OPEX) expenditure

► FMECA and RAM Analysis – to identify the key risks, put mitigations in place
► Benefits of real time condition monitoring in the offshore world
► Risk mitigations from more predictive data
► Improved Technology, network of sensors, data recorders and communication systems on the rig providing critical information on BOP pressure control equipment
► Educating subsea operations engineers, asset managers to improve the condition of your assets
► Cyclic Industry, experienced personnel leaving the industry, creating knowledge gaps

KEY TOPICS

► Real Time Condition Performance Monitoring
► Compliance with Regulatory Standards and remaining with your operating limits/ per well campaigns.
► PT Sensors, Data Communication provides condition based maintenance and maximise subsea equipment uptime
Module: SUBSEA LIGHT WELL INTERVENTION (SLWI)

Improved well Integrity management and enhancing production assurance

Intervening on a well to put in an intelligence completion valve will get you more real time data across the lifecycle of the well – more intelligence into the well, technology is more readily available today, to encourage the use at lower CAPEX.

Operators sharing the field development costs in wells that are in a close proximity – e.g. UKCS North Sea, Small Pools – over 300 known fields in NS that are of a marginal size, if you can pull align technology by shared costs – then SLWI can help the small pools business case!

Using SLWI – the benefits to be gained from doing it across the life of an asset

Increased production recovery out of marginal wells, e.g. – from reservoir simulation, improved flow assurance

Instead of waiting for something to fail – a proactive approach/intervention helping maximise the production recovery across the assets lifecycle

- Sharing lifecycle OPEX costs of LWI vessel contracting agreements – beneficial cases to a group of operators, optimizing (ROI) levels
- Vessel Mobilisation / De-Mobilisation multiple campaigns, tool pooling of equipment + service company resources

KEY TOPICS

- Improve the return of the financial investment (ROI) from marginal fields recovery.
- Example: Small Pools UKCS North Sea
- Subsea XT deployments
- Enables multi-tool operations
- More cost effective well maintenance (mechanical failure downhole, in subsea XT’s.
- Improved Flow assurance (scale, wax or hydrate removal)
- Reservoir Modeling, Production logging, zonal isolation, re-perforating
- Wellhead + Conductor recovery, guidebases
Module: SUBSEA INSPECTION TECHNOLOGIES

AIV, AUV, laser scanning tools, intelligent pigging of lines

► Understanding the condition of the pipeline or subsea structures
► Training people how to use the latest technologies, to get the most out of the inspection campaigns
► Embracing technology to help with (IMR) campaigns, asset integrity
► Help reduce the OPEX on maintenance

KEY TOPICS

► Understanding various API-DNV recommended best practices
► Managing your CMMS data
► Maintaining compliance with regulatory, statutory requirements
► Develop input data for Asset Life Extensions or phased decommissioning campaigns

Image courtesy of TRACERCO
ADD ENERGY
KNOWLEDGE MANAGEMENT HUB

Assurance in the preservation and transfer of expert knowledge

► Experienced instructors
► Simulator training
► Subject matter experts
► Real life accounts and application
► All training courses will be delivered in accordance with ISO Standards 19001: 55000 and 55001, courses are also recognised by the Society of Underwater Technology(SUT) for those working towards C,Eng status

Using cloud based and E-Technologies to share information

KEY TOPICS

► Big data technologies
► Processes
► Intelligence
► Real life accounts
► Asset management principles
► Best practices
► Life extension techniques
► Access to industry data
► Experienced instructors
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SUT
Society for Underwater Technology
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