An Intensive 5 Day Training Course

Managing Offshore Field Development & Marine Asset

22 - 26 Oct 2017, Dubai

This course is Designed, Developed, and will be Delivered under ISO Quality Standards
Managing Offshore Field Development & Marine Asset

WHY CHOOSE THIS TRAINING COURSE?

Offshore Field Development involves planning the field development, design engineering, construction, start-up and production operations. When planned and executed with marine assets, such offshore field development projects will be technically and commercially challenging. Therefore a good knowledge and competency of the project team members throughout the different phases of the field development are keys to the successful execution of such developments.

This training course will cover:

- Opportunity Reference Planning and Field Development Planning (FDP)
- Fiscal systems and Project economics
- Design engineering, procurement
- Substructures and topsides fabrication and construction
- Load-out, sea transportation and offshore installation
- Hook-up, commissioning, and start-up
- Overview of the major and support marine vessels, cranes and pipe-laying equipment

This PetroKnowledge course emphasises the use of best practices, illustrative engineering calculation, drawings and diagrams to enhance the learning experience of the participants. Relevant international and typical client engineering standards will be referred to.

By attending this training course, the participants will be better prepared to function in the field development, feed and design engineering, fabrication and construction department, offshore installation, hook-up, commissioning and start-up of offshore projects. Such roles include development engineering, field and discipline engineers, project engineer, cost estimating engineers, fabrication and construction engineers, contract admin executives, CSR, construction supervisors and engineers.

This training course will feature:

- Overview of field development planning (FDP) and project management
- Design engineering process, deliverables and flowchart

WHAT ARE THE GOALS?

By the end of this training course, participants will be able to:

- Understand what entails in field development planning (FDP) and project management
- Understand the complexities of Managing Offshore Field Development & Marine Asset
- Understand Fabrication, Erection, Loadout and sea-fastening implementation at Fabrication yards
- Understand the selection of the major support marine vessels and major installation equipment for offshore installation works.
- Fully understand the structure and topsides installation techniques
- Understand what is involved in Pipelaying and riser installation works & Subsea installation and diving support activities
- Fully understand what are involved in mobilisation of marine vessels, construction crew, marine crew and construction equipment
- Understand the scope of work for hook-up and commissioning activities

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Day One: Field Development Planning (FDP), Project Management and Design Engineering, Fabrication and Onshore Construction

- Pre-course assessment test
- Course learning objectives vs course participants’ expectations
- Field Development Planning (FDP), Project Management and Design Engineering
  - Overview of Field Development Planning (FDP)
  - Project Management Team (PMT), roles and responsibilities
  - Contracting, subcontracting and procurement activities
  - Design engineering process deliverables and flowchart
  - Health, safety, environment and security requirements, including training requirements and qualification of personnel
  - QA / QC requirements, documentation and drawings controls
- Fabrication and onshore construction
  - Fabrication yard layout, load-out methods, workshops and major equipment types, foundation preparation and preliminary works
  - Planning and scheduling, fabrication cost-time-resource (CTR) estimating
  - Fabrication, erection and assembly of major structures, substructures, topsides and living quarters
  - Pipeline procurement, concrete coatings, pipeline load-out and transportation

Day Two: Yard Activities, Load out Activities & Offshore Activities

- Welding and welder qualifications
- Blasting and painting activities, testing and inspection requirements
- Typical manpower and fabrication equipment planning and management
- Skid and packaged equipment procurement, factory acceptance testing (FAT), delivery, storage, preservation, installation
- Weight control and weighing of structures in fabrication
- Yard pre-commissioning activities
- Jacket modules commissioning, trial fitting and ship loose items management
- Load-out activities
  - Pile and conductors make-up and fabrication, transportation arrangement and load-out
  - Load-out planning, engineering for substructures and topside
  - load-out execution, ballasting techniques and calculation
  - Insurances, commercial and warranty surveys
  - Emergency Response Procedure (ERP)

WHO IS THIS TRAINING COURSE FOR?

This PetroKnowledge training course is suitable to a wide range of professionals but will greatly benefit:

- Asset Managers
- Field Engineers, CSRs, Construction Supervisors, Project engineers
- Operations engineers
- Workpack engineers
- Structural engineers
- Metocean engineers
- Pipeline discipline engineers
- Subsea equipment engineers
- Various discipline engineers (structural, piping, equipment, electrical, instrumentation)
- Maintenance engineers
- Contract admin, buyers and procurement executives
- Cost estimating, project control and planning engineers
- Diving and diving support personnel
- Managers and executives who are new to Offshore engineering projects
- Other engineers and technicians who need to update their current Oil and Gas industry experience and wanting to move to Offshore Field development Projects
- University engineering lecturers who wish to be CPD-certified by Institution of Engineers (IEM) at their respective countries

HOW WILL THIS TRAINING COURSE BE PRESENTED?

This training course will be conducted in a classroom. Examples and video clips of past offshore fabrication and load-out activities, as well as offshore installation activities will be used to aid the learning and understanding of the subject matters. Participants will also take part in group classroom exercises to reinforce their learning experience. Each participant will receive a set of course materials. There will also be pre-course as well as post-course assessment tests.
• Offshore facilities, pipelaying and subsea installation
  o Offshore transportation and installation phases, including planning and scheduling
  o Geotechnical and geomatics surveys
  o Anchor-pattern preparation and approval
  o Offshore installation considerations, engineering and calculations
  o Weight control and onshore weighing reports of structures
  o Transportation analysis and sea-fastening
  o Launching, lifting and installation of substructures
  o Substructures launching, lifting, self installation & novel methods
  o On-bottom stability, pile and conductor make-up, piling and grouting of substructures

Day Three: Offshore Installation Works & Marine Vessels and Offshore Equipment

• Lifting analysis of topsides and modular topsides construction
• Float over of integrated topside deck
• Topsides installation - modular lifts, float-over and novel methods
• SIMOPS considerations for offshore installations
• Pipeline and riser installation
• Reel pipelines and umbilicals laying
• Subsea equipment installation and diving support activities
• Marine vessels and offshore equipment
  o Vessels availability, contracting and procurement activities and considerations
  o Major and support marine vessels, major equipment types for offshore installation, hook-up and major maintenance
  o Onshore supply base and Load-out activities
  o Logistics support activities
  o Cost-time-resource (CTR) estimating for transportation and installation

• Hook-up Construction and Commissioning (HuCC)
  o HuCC planning and scheduling, monitoring and reporting
  o Workpack process and execution
  o Procurement - cost-plus and overheads
  o Construction and marine crew manpower recruitment and mobilisation
  o Onshore minor fabrication
  o Mobilisation of construction crew, equipment and marine vessels
  o Inspection of construction equipment and marine vessels
  o Overview of marine operations

Day Five: HuCC, Start-up, Operations, Handover, Project Closeout

• Hook-up activities, namely, blasting and painting, cutting, fitting and welding, piping and piping supports, platform appurtenances, E&I works
• Pre-commissioning activities
• Hydrotecting, NDT and inspection activities
• Commissioning activities and dossiers
• Start-up, Operations, Handover, Project Closeout
  o Start-up (first oil, first gas) production
  o Documentation for the project
  o Hand-over to operations team
  o Punch-list items
  o Post-project activities, final documentation
  o Change-order and variation orders,
  o Lesson learnt database and dissemination
• Course summary
• Post-course assessment test
Managing Offshore Field Development & Marine Asset

COURSE DATES, VENUES AND FEES

<table>
<thead>
<tr>
<th>Dates</th>
<th>Venue</th>
<th>Fee</th>
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<tbody>
<tr>
<td>22 - 26 Oct 2017</td>
<td>Dubai</td>
<td>$4,500</td>
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This fee is inclusive of Documentation, Lunch and Refreshments.

Please use BLOCK CAPITALS to fill in this form. It is important that you read carefully through all information before starting to complete the form.

REGISTRATION DETAILS

Family Name: ____________________________________________ First Name (Mr./Ms.): _________________________________________
Position: ________________________________________________ Company: ____________________________________________________
Mailing Address: _______________________________________________________________________________________________________
Telephone:____________________ Mobile: _____________________ Fax: ________________________ email: ________________________

AUTORISATION

Authorisation By: ______________________________________________________________________________________________________
Position: ________________________________________________ Company: ____________________________________________________
Mailing Address: _______________________________________________________________________________________________________
Telephone:____________________ Mobile: _____________________ Fax: ________________________ email: ________________________

IN-HOUSE TRAINING

Maximize your training budget and have several members of your staff, who require specific training, to attend with the advantage of not incurring additional travel costs when attending a ‘public’ training courses & seminars.

Would you like a PetroKnowledge training course delivered at a time or location to suit you? Would you like PetroKnowledge to tailor a course from our comprehensive library of programmes? Or would you like us to create an entirely new, bespoke course to suit the exact needs of your organisation?

Working in partnership with our clients, PetroKnowledge provides an enjoyable, creative learning experience that enables participants to develop their skills and knowledge. We can deliver not only generic, off-the-shelf courses from our extensive learning portfolio, but we can provide tailored as well as bespoke learning on any aspect of skill development or knowledge. Our in-house courses are conducted by the same expert trainers who conduct PetroKnowledge public courses so you can be assured they will fulfill the learning objective of any organisation.
BOOKING TERMS & CONDITIONS

Booking
• Bookings for courses can be made via our website (petroknowledge.com) or by contacting our Registration Desk on +971 2 5577389 or at reg@petroknowledge.com
• For on-line bookings, please select the course that you require and click on the “Register Now” button, following the instructions step by step
• Upon receipt of booking in order, enrollment on the respective training course will be confirmed by Registration Team with all necessary documentation

Invoicing and Payment
• Our fees include course presentation, relevant materials, physical & digital documentation, lunch and refreshments served during entire training. Accommodation charges are not included in the course fees
• Course fees are payable upon booking unless a valid, authorized Purchase Order is provided and accepted
• Invoices will be sent via email/courier to the ID/name and address provided
• We prefer to have the fees payment in our account before the start of training course. However, if your company has a different payment policy, the same should inform us in advance
• The currency of fees is in US Dollars (USD). Payments can be made in USD or UAE local currency AED (Arab Emirates Dirhams) either by Bank Transfer or by Credit Card. Our Bank Account details will be provided on the Invoice
• Please note that we do accept payment by cash, in USD or AED, only for the last minute bookings

Cancellation of Courses
• It may be necessary for PetroKnowledge to amend or cancel any course, course times, instructors, dates or published fees due to unforeseen circumstances and we reserve the right for such changes
• Any amendments will be advised before the course start date and any bookings already paid in full will not be subject to increased fees

Cancellation by Client
• Once you have completed your booking, received your confirmation of enrollment and a dated payment Invoice, you are deemed to have a contract with PetroKnowledge. You reserve the right to cancel this contract given the below terms
• All cancellations must be received in writing at reg@petroknowledge.com and info@petroknowledge.com at least 14 days prior to the training
• After the cancellation period has expired, consideration may be given, on a case to case basis, if a registered delegate nominates a substitute on the same course, shifts to next session of the course or moves to a new course
• For a cancellation request made on or before the statutory 14 day cancellation period, a refund may be given or a credit note issued which can be used against future course fees
• A 25% administration fee (of the total course fee at the time of booking) will be charged for any cancellations made outside of the statutory cancellation period

Attendance Certificate
• The daily course schedule should be accurately followed to ensure undeterred implementation of our training
• All delegates, who participated in their course throughout, will receive the Certificate of Completion on the last day
• Please report any foreseeable absences to a PetroKnowledge representative or to your sponsors directly
• An absence of three (3) or more sessions of the course will invalidate your eligibility for the Certificate of Completion