CPD online workshop

Marine drilling technology

About the workshop
The workshop helps participants acquire fundamental knowledge of marine drilling processes for offshore jack-up and floater drilling rigs.
It includes various types of drilling rig, facilities and systems employed in drilling wells. For example the derrick, drill string, drilling muds and cementing. Special attention is given to the marine drilling components of the blow out preventer, the marine drilling riser, the riser tensioner and heave compensation systems.

Learning outcomes
Participants will understand the basics of offshore rig and drilling design, the relevant technologies, their working principles and how wells are drilled offshore.
Practical experience will be gained through case studies and videos illustrating lessons learned from past successful projects.

Topics covered include
• Introduction to offshore drilling activities
• Offshore drilling hosts: jack-up; semi-submersible and drillships
• Drill floor layout and drilling rig components
• Well design
• Drill string design and components
• Drilling mud and cementing systems
• Marine riser and offshore drilling components
• Formation pressure control and blowout preventers
• Drilling offshore wells including platforms and mobile drilling units
• Advanced and new drilling techniques
• Offshore support vessels
• Case studies and video examples

Who will benefit from the workshop
• Engineers, technicians, supervisors, project managers working in:
  - Marine drilling technology
  - Oil rig construction and drilling platforms
  - Offshore engineering and construction
  - Offshore and subsea oil and gas production
• Other professionals involved in related procurement, construction, commercial, commissioning and administration fields
• Classification societies and professional organisations
• Insurance brokers
• Legal and financial professionals in the offshore sector
• Representatives from professional and government agencies

Monday 13 - Thursday 16 September 2021
18:30 - 22:00
Saturday 18 September 2021
13:30 - 17:00
$950 (+ GST)
Dr John Preedy

Dr John Preedy worked for BP for 28 years as a Research Associate and Team Leader. After leaving BP in 1992, he has continued working in the offshore oil industry through Azur Offshore Limited. His clients included Chevron UK, BP Exploration, British Gas, Technomare, Trident Consultants, Fina UK and Cameron France.

As well as coordinating the oil industry training courses that Azur Offshore Limited provides to professional engineers in Europe, USA, SE Asia, Australia and Africa, he is also the Course Director and Principal Lecturer.

Dr Arun Dev

Dr Arun has over 30 years of experiences in naval architecture, marine and offshore engineering. He received the Fellowship Award from SNAME in 2019 and the Lifetime Achievement Award from the Singapore Joint Branch. Dr Arun is currently the Associate Professor and Director of Postgraduate Studies at Newcastle University in Singapore (NUiS).

Newcastle Research & Innovation Institute Pte Ltd (NewRIIS)
CPE Registration No. & Period: 201706759K (1 Nov 2018 to 31 Oct 2022)
80 Jurong East Street 21 #05-04, Devan Nair Institute for Employment and Employability, Singapore 609607

This event is online. Newcastle University reserves the right to adjust schedules in the event of unforeseen circumstances.

Book your place at:
belong.ncl.ac.uk/singapore-newriis-events-lp
or scan the QR code