There are signs that the offshore oil and gas industry is recovering from the Covid-19 pandemic and the accompanying oil price drop. Future activities in this industry will include a longer-term energy transition to new forms of energy supply. Besides learning about the technical aspects of topsides processing and FPSOs, participants will gain a firm understanding of the future of the oil and gas industry.

**Course Benefits**

The course is designed to help participants acquire fundamental knowledge in Topsides Processing technology (for FPSOs including new builds, conversions and fixed platforms). Upon completing the workshop, participants will understand the basics of offshore oil & gas processing systems, equipment working principles, field requirements and new process equipment. Case studies, videos and multimedia will be used to illustrate operating principles and lessons learned from past successful projects.
WHO SHOULD ATTEND?

- Engineers, technicians, supervisors, project managers working in:
  - Shipbuilding and repair
  - Ship conversion
  - Oil rig construction
  - Offshore engineering & construction
  - Offshore and subsea oil & 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

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

SPEAKERS Profiles

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 Ltd. Clients have included Chevron UK, BP Exploration, British Gas, Technomare, Trident Consultants, Fina UK and Cameron France. He is also responsible for co-ordinating and is the Course Director and Principal Lecturer for the oil Industry training courses that Azur Offshore Ltd provides to Professional Engineers in Europe, USA, S.E. Asia, Australia and Africa.

Dr Arun Dev
Dr Arun has over 30 years of experiences in naval architecture, marine and offshore engineering. He received the Fellowship Award from Society of Naval Architects and Marine Engineers 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).

WORKSHOP TOPICS

- Introduction to FPSO technology and topsides processing systems
- New build FPSO vessels; tanker conversion & re-deployment FPSO vessels
- Introduction to topsides processing
- Reservoir fluids and product export specifications
- Oil separation system
- Gas processing and compression
- Produced water cleaning and disposal
- Preparation of water for injection (pressure maintenance)
- Power generation and utilities
- Topsides equipment layout and operations
- Oil storage and export
- Gas utilisation options
- Field examples

Newcastle Research & Innovation Institute (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 & Employability, Singapore 609607
Telephone: (+65) 6514 0568
Email: newriis.research@newcastle.ac.uk