ABOUT THE COURSE
The costs of offshore wind are currently significantly higher than onshore wind. A significant contributor to this higher cost is the cost of the substructures for the turbines, hence a rational and optimized design of foundation for wind turbines is essential to reduce the overall cost. This course gives a detailed knowledge about the design and analysis of mono-pile, and piled jackets. This course also includes the soil-pile interaction and the dynamic responses. The key differences between offshore wind substructure and offshore substation substructure is also emphasised. Lastly, the course gives the design driver for Jacket offshore wind turbine substructure.

COURSE OUTLINE

**Tuesday 5th July 2016**

**Lecture 1:** Overview of the wind turbine substructure  
*By Paul Doherty*

**Lecture 2:** Soil structure interaction  
*By Paul Doherty*

**Lecture 3:** Case studies  
*By Paul Doherty*

**Lecture 4:** Recent research, JIPs and lessons learned  
*By Paul Doherty*

**Wednesday 6th July 2016**

**Lecture 5:** Offshore wind turbine loads analysis methodologies (fully integrated, superelement) and modelling tools  
*By Andrew Cordle*

**Lecture 6:** Temporary stability of piles and modelling installation  
*By Alice Maynard*

**Lecture 7:** The key differences between offshore wind substructure and offshore substation substructure  
*By Ting Sie Chui*

**Lecture 8:** The design driver for Jacket offshore wind turbine substructure  
*By Ting Sie Chui*

COST
Course fee will be £650+VAT which includes course notes and lunches. The fee doesn’t include accommodation. You should make your own arrangements for accommodation.

VENUE
Croydon Park Hotel  
7 Altyre Road  
Croydon,  
Greater London,  
CR9 5AA

(All delegates are entitled to a special rate of £3.00 per car for full days parking)
ABOUT THE LECTURERS

Paul Doherty BE, PhD, CEng, MIEI graduated from UCD with a BE (Hons) degree, where he specialised in geotechnical engineering and soil mechanics. He has worked on a range of consultancy projects, including offshore foundation design, piled foundations, slope stability and geotechnical instrumentation/monitoring. Paul is also an active member of the Deep Foundation Institute (DFI) technical committees for "Marine Foundations" and "Driven Piling". Paul completed a PhD on the topic of offshore pile design in 2010. He has published over 50 technical articles on piling and foundations and has been Managing Director at GDG since the company inception in 2011.

Ting Sie Chui, PhD graduated as PhD in Civil Engineering. He is a chartered engineer and has been working in offshore wind industry for the last 5 years. Currently he is a lead engineer in a detailed design offshore substation substructure design with Atkins.

Andrew Cordle is a team leader at DNV GL, working on offshore loads analysis in the renewables department based within the DNV GL’s Bristol Office.

Alice Maynard is a senior geotechnical engineer with DNV GL renewables based within the DNV GL’s Bristol Office.

REGISTRATION

☐ I wish to register for the course at a cost of £650 + VAT (UK only) including course material and workshop lunches.

Payments can be made by cheque (made payable to ASRANet Ltd.), cash or bank transfer but no card payments. Please enquire for details.

☐ Please invoice me at the below address

Please do not make your travel arrangements until you receive an invoice from us.

NAME

ADDRESS

EMAIL

TEL/MOB

I accept the above

Signed

Date

The completed form should be sent to: info@asranet.co.uk OR to ASRANet Ltd, 5 St Vincent Place, Glasgow, G1 2DH UK

Disclaimer

All materials and information supplied during and associated with this course are intended purely for instructional purposes. Whilst every effort is taken to ensure that materials provided are accurate and suitable for training purposes, ASRANet Ltd accepts no responsibility for their accuracy or utility.

I accept the above

Signed

Date