

Earthing Studies and Standards

11th April 2018

Course Outline

This comprehensive training course will enhance the knowledge and skills of professionals carrying out construction and maintenance in the areas of high voltage substations and sites with increased lightning discharge such as wind farms.

There will also be an opportunity in the last session of the day for a Q&A with ESBI on behalf of ESB Networks.

Contact: Who Should Attend?

Jeanette Gill

E jeanette@iwea.com

T: +353 (0) 45 899 341

This course is aimed at operators, PSCS, H&S personnel and service/construction personnel working on wind farms connected to the high voltage electrical network.

Wind Skillnet

C/O IWEA

Sycamore House

Millennium Park

Osberstown, Naas,

Co. Kildare

www.iwea.com

Course Objectives and Learning Outcomes

- Awareness of dangers on HV connected sites during electrical faults.
- Knowledge of relevant standards.
- Appreciation for the effects of soil and weather condition on earthing.
- Learn the factors effecting site safety of energised earthing systems.



Earthing Studies and Standards

11th April 2018

Location: IWEA Training Centre, Naas, Co. Kildare

Course Content

- Basic introduction to electrical safety and need for earthing.
- Earthing basics.
- Soil Profiles and measurements.
- Relevant IEEE, IEC & BS Standards.
- Ground Potential Rise, Touch & Step potential
- Hot Zones & Transferred/Exported Potential
- CDEGS
- Basics
- Examining Simulations Results (Basic / Complex)
- Interpreting ground potential rise plots & safety implications
- Demonstrations
- Installation of earthing electrodes and bonding (avoiding galvanic corrosion)
- Earth system testing & commissioning.
- Effects of lightning currents in earthing systems

Contact:

Jeanette Gill

E jeanette@iwea.com

T: +353 (0) 45 899 341

About the Trainer

Wind Skillnet

C/O IWEA
Sycamore House
Millennium Park
Osberstown, Naas,
Co. Kildare

www.iwea.com

Declan O'Hara has been with NeoDyne for the past four years. He holds a BEng(Hon) from university college Cork (UCC) with membership of IEI, IET and CIGRE. He has been involved in the design of numerous IPP WFPS & CHP and their connecting HV/MV substations.

With a keen focus on electrical studies he has developed steady-state and transient analysis techniques within the company.

He has a certificate in earthing design from SES and has designed several earthgrids at various connection voltages both for IPP and ESNB substations.





Earthing Studies and Standards

Date: 11th April 2018

Registration: 09:00am Start: 09:30am Finish: 5.00pm
Location: IWEA Training Centre, Naas, Co. Kildare

Cost: Company Member : €160
 Non Company Member : €235

Trainers: Declan O'Hara, NeoDyne

I wish to reserve:
No. of Places: €

Trainee (s) Details:

Name: _____

Company (as invoice) _____

Address: _____

Email: _____

Phone: _____

Please tick your preferred method of payment. Please note payment must be received in advance of course.

Failure to give 48 hours notice of cancellation will result in loss of refund

Payment Options:

Cheque Credit Card

Invoice PO Number

Card No:

Expiry: Name: CCV no:

Please forward registration form and payment to Wind Skillnet, c/o IWEA Sycamore House, Millennium Park,

Naas, Co. Kildare OR Email: jeanette@iwea.com Tel:+353 (0) 45 899341

Wind Skillnet is funded by member companies and the Training Networks Programme, an initiative of Skillnets Ltd. funded from the National Training Fund through the Department of Education and Skills.