

COURSE DESCRIPTION

INTCV565 Power system earthing



The goal

This earthing training course is an intensive program designed to explain fundamental earthing principles and the earthing system design and will develop an understanding of the science behind earthing and the mechanisms that lead to earthing related risks. It also highlights the methods to manage the risks through effective design.

Learning objectives

The participants will be able to:

- · Understand the concept of earthing
- Gain knowledge necessary to design and manage the earthing systems of utility and industries
- Appreciate the complex problems of conductive and inductive interrelationships between substation and powerline earthing
- Appreciate the techniques for solving problems found in earthing system design using computer based techniques

Participant profile

Asset managers, project managers, maintenance managers, electrical engineers and other technical staff responsible for power system or other assets that rely on earthing systems for their safe and correct operation.

Prerequisites

Degree or diploma in engineering. A solid background in electrical engineering is essential.

Topics

- Basic concepts of earthing, electrical properties of soil and measurement
- Earth potential rise, step and touch potential concepts
- Fundamentals of overhead line earthing,
 Cable earthing, Equipment earthing
- Basics of Lightning and surge protection
- Overview of Earthing system design and case studies

Course type

This is a face to face class room training with maximum 20 participants. Instruction language is English.

Learning methods and tools

Lectures and demonstrations. **Laptop** or tablet is required to have access to the edocumentation.

Duration

2 day

To Register:

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The latest version of the course portfolio, and course schedule can be found on our

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