
COURSE DESCRIPTION**INTCV566****HVDC - technologies & applications****The goal**

The goal of the course is to provide insight to the HVDC technologies that enable long distance bulk power delivery, remote and renewable power integration, asynchronous interconnections and transmission via cable links. New converter designs have broadened the potential range of HVDC transmission to include applications for underground, offshore, economic replacement of AC transmission and voltage stabilization. The emphasis on this course is on broader range of latest technologies and HVDC applications that has contributed to the recent growth of HVDC power transmission.

Learning objectives

The participants will be able to:

- Understanding the broader range of HVDC Applications.
- Converter technologies used in HVDC Transmission Systems
- System Configuration and Operating modes
- Comparison of HVDC technologies and selection criteria
- Grid codes and compliance requirements.

Participant profile

Electrical Engineers, Design, EPC, testing and commissioning personnel and consultants from the electricity supply industry. Academia Students of Electrical /Power System.

Prerequisites

Engineering degree, technical college qualification or equivalent with basic knowledge of HVDC Systems.

Topics

- HVDC Basics and Overview
- HVDC Applications.
- HVDC Converter Technologies – LCC & VSC
- System Configurations and Operating modes.
- HVDC solution and benefits
- MACH control and protection system
- HVDC Links in India

Course type

This is a face to face class room training.

Learning methods and tools

Lectures, demonstrations, VR tools. **Laptop** or tablet is required to have access to the e-documentation. Please bring your own device.

Duration

Duration of the course one day

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