

Design, Operation and Maintenance of Interconnected Electrical Systems

TRAINING OBJECTIVE

Understanding of the main rules & know how of interconnected electrical systems O&M

Length of the course: 5 days

PEDAGOGY

- Theoretical training
- Practical training with « school » case studies
- Use of network softwares

TRAINING PROGRAM

- Interconnected Electrical Systems (IES) principles and description
- IES origins and missions
- IES's problems
- Impact on the stability and power plant behaviour
- IES operation and the necessary information exchanges
- Dynamic behaviour of an IES and the supervision of key parameters
- Protection system of an IES
- Communication system of an IES
- Remote control of an IES
- General incidents
- electrical network blackouts / interconnected system blackouts
- The problem of maintenance of an IES
- The different steps of Interconnection studies of two electrical systems
- Decision process for IES studies
- Softwares for Network studies