Planning & Operating Electrical Network with Renewable Energy

TE311

Course Overview:

Renewable Energy Integration focuses on incorporating renewable energy, distributed generation, energy storage, thermally activated technologies, and demand response into the electric distribution and transmission system. A systems approach is being used to conduct integration development and demonstrations to address technical, economic, regulatory, and institutional barriers for using renewable and distributed systems.

Course Objective:

-Understand the grid flexibility to renewable energy integration
-Determine the various types of renewable energy
-Explain the different types of solar panels
-Analyse the common types of wind farms
-Understand the various type of energy storage systems

Course Outline:

-Basics of Electric Systems Operations
-Grid Impact of Variable Generation at High Penetration Levels
-Generation and Transmission Planning for Renewables
-Energy Forecasting as a Way to Integrate Renewable Energies
-Energy Storage

Who Should Attend:

-Electrical engineers
-Electrical supervisors
-Power engineers

Training Language:

Eng/Ar

Training Methodology:

-Presentation & Slides
-Audio Visual Aids
-Interactive Discussion
-Participatory Exercise
-Action Learning
-Class Activities
-Case Studies
-Workshops
-Simulation

Venue | Date | Fees

Khobar | 22-10-2023 | 10,350 SAR