



ETAP- Power System Analysis

Entry Requirement

Candidate should have basic electrical fundamentals knowledge having BE-BSC Electrical Engineering degree

Description

This training course is strongly recommended for the engineering intends to work as lead design engineer, substation engineer, power system engineer, industrial engineer.

Course contents

- ETAP overview- applications, Tools, options, settings
- Load flow Analysis
- Balance and un balance load flow analysis
- Case study network design LV-MV
- Transformer sizing, Genset sizing, Cable sizing
- Voltage drop, Power factor modulation.
- IEC- ANSI standards.
- SOLAR PV On grid, off grid analysis
- Short circuit analysis
- Single phase and three phase analysis.
- Faults symmetrical and unsymmetrical concepts ETAP Design
- Arc flash study Applications and standards.
- Report generations.
- Motor starting analysis
- Case studies
- DOL- ASD – Soft starter modeling and analysis
- VFD – Static and Dynamic analysis
- Transit analysis & Case studies
- Back ground and importance
- Harmonics analysis & Case studies
- Back ground and importance
- Protection device Coordination
- What is protection Device coordination
- What is DMT & IDMT curves settings
- Case study network
- Over/under voltage protection concept and case studies of ETAP Design
- Over/under frequency protection concept and case studies of ETAP Design
- Synchro check relay concepts
- Overcurrent/ earth fault and concept and case studies
- Directional over current relay and modeling
- Differential relay and modeling
- Reverse power relay and modeling

Benefits

- Training by Mr. Sajid Munir. He has rich hands-on experience in electrical projects in the areas of substation, industry, commercial, solar PV, Relay testing, project management, technical trainings.
- Trainings flexible face to face or online.
- Real time field base demo and exercise.

Course duration

1 week

8:00pm to 10:00pm



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