

Introduction to Electrical Engineering in Oil and Gas Industry

Course Objectives



This course is designed to familiarize trainees with:

- General safety and HSE regulations in O&G industry.
- The roles of newly graduated engineers and the posts they can occupy in the oil and gas industry.
- The development process in oil and gas industry.
- The fundamentals of electrical equipment/systems to be used in onshore and offshore installations in O&G industry.

About the speaker



Wael Tahsin Shanan

B.Sc. In Electrical Power Engineering and Machines,
Cairo University, 1990.

Over 29 Years of experience in Oil and Gas field, on onshore and offshore facilities:

- 15 Years of experience in maintaining, commissioning, testing and construction supervision of electrical equipment in Badr Aldin Petroleum Company (BAPETCO), western desert, Egypt.
- Over 14 Years working as an Electrical Training Instructor for ADNOC Offshore, DAS Island, Umm Shaif Super Complex, Zakum West Super Complex, Abu Dhabi, UAE, providing Foundation and On the Job Training (OJT) courses for UAE Entry Point Employees to enable them to reach the competency level required for their target posts.

Course Overview



Course Duration:

30 hours

(5 days, 6 hours/day)

This course is designed to introduce the fundamentals of main electrical systems and equipment used in Oil and Gas Industry, highlight the different roles of newly graduated electrical engineers in the trade and provide an introduction to their development process in the industry.

Who Should Attend

Newly graduated electrical Engineers and last year Engineering Students.

Training Aids

MS Power Point presentations and relevant technical videos.

Course Contents

- HSE rules, procedures, PTW systems and PPE used in O&G industry.
- Roles and responsibilities of newly graduated electrical engineers in O&G industry.
- Youth Development Program (YDP) of newly graduated electrical engineers in O&G industry.
- Fundamentals of Power Generation in O&G industry.
- Fundamentals of Synchronous Generators, Main & Standby power generation in O&G industry.
- Fundamentals of electrical of battery supported systems (AC & DC UPS).
- Fundamentals of Gas Turbines in O&G industry.
- Fundamentals of power system distribution equipment such as HV & LV Switchgear, Transformers, Electric Cables and OHTL.
- Fundamentals of Power Transformers and their applications in O&G industry.
- Fundamentals of AC & DC motors and their applications in O&G industry.
- Fundamentals of electrical power systems, earthing systems, lighting systems, cathodic protection systems and electrical control systems.
- Fundamentals of electrical measurements and test equipment.
- Fundamentals of PLC systems.
- Fundamentals of electrical equipment in hazardous areas.

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