

TM136

Course Overview:

The aim of this course is designed to provide a thorough understanding of Steam Power Plants, Gas Turbines, co-generation and combined cycle plants. Each of the components such as compressors, gas and steam turbines, heat recovery steam generators, deaerators, condensers, lubricating systems, transformers, and generators are covered in detail.

Course Objective:

This course is designed to provide a thorough understanding of Steam Power Plants, Gas Turbines, co-generation and combined cycle plants. Each of the components such as compressors, gas and steam turbines, heat recovery steam generators, deaerators, condensers, lubricating systems, transformers, and generators are covered in detail. The selection considerations, operation, maintenance and economics of co-generation plants and combined cycles as well as emission limits, monitoring and governing systems will also be covered thoroughly.

Course Outline:

- -HERMODYNAMIC REVIEW
- -GENERAL OPERATOR RESPONSIBILITIES
- -BALANCE OF PLANT SYSTEMS REVIEW AND OPERATION
- -GAS TURBINE REVIEW AND OPERATION
- -HRSG REVIEW AND OPERATION
- -STEAM TURBINE REVIEW AND OPERATION
- -COMBINE CYCLE STARTUP
- -PRE STARTUP REQUIREMENTS
- -GAS TURBINE STARTUP
- -AUTO DRAIN SEQUENCE
- -STEAM TURBINE STARTUP
- -COMBINE CYCLE STARTUP REVIEW
- -COMBINE CYCLE NORMAL OPERATION
- -OFF PEAKING OPERATIONS
- -ROUTING TESTING & MAINTENANCE
- -COMBINE CYCLE SHUTDOWN
- -LOAD REJECTION
- -LOSS OF LUBE OIL

Who Should Attend:

Operators, engineers, technicians, and administrative personnel of operating facilities as well those who may work in affiliated industries

Page: 1 | 1

Training Language: EN / AR

Training Methodology:

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

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