



Consulting and Training | Reach New Heights

Course Name

Mark V Control System

Sector Name

Instrumentation & Controls

Document Type

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Mark V Control System

Course Introduction

This training course is designed to equip **TAPCO** participants with the essential knowledge in the daily operation and maintenance of the Mark V control system and HMI. It aims to equip operators and technicians with the skills to configure HMI displays, utilize HMI software tools effectively, and diagnose issues within Gas Turbine **SPEEDTRONIC** Control Systems. With a strong focus on turbine governing systems, participants will enhance their abilities in HMI features, configuration, and troubleshooting.

The course utilizes a Gas Turbine simulator to provide practical, hands-on experience, enabling participants to handle various operational challenges, understand configuration concepts, and master fault-finding techniques. Through advanced real-time simulators, participants will learn safe and efficient plant operation methods under normal and abnormal conditions, developing the ability to start up, operate, shut down, and troubleshoot gas turbine power plants efficiently.

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Target Audience

- ✓ Group discussions and exercises
- ✓ Facilitated discussions
- ✓ Table-top exercises
- ✓ Manuals, workbooks and references
- ✓ Assessing competencies
- ✓ References and further reading

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Learning Objectives

- ✓ Gain a comprehensive understanding of the types of gas turbines and their applications.
- ✓ Understand and read Gas Turbine schematics and identify instrumentation devices/uses.
- ✓ Identify various Gas Turbine Systems and explain operating requirements for Lube Oil, Hydraulic Oil, and Fuel Systems.
- ✓ Understand start-up, synchronising, and loading procedures.
- ✓ Conduct troubleshooting, fault finding, and configure sequencing.
- ✓ Configure operating displays and the Trip Historical display.
- ✓ Use the software tools that are used to troubleshoot alarms.
- ✓ Edit the sequencing, configure the Inputs and outputs (both hardwired and networked)
- ✓ Calibrate Servo-Actuated Valve, LVDT's and other devices.
- ✓ Learn the principles of emissions control and the various methods of achieving this.

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Course Outline

✓ **01 Day One**

Introduction to Gas Turbines and Mark V Control System

- ✓ Overview of Gas Turbines and Applications
- ✓ Types of Gas Turbines
- ✓ Gas Turbine Schematics and Instrumentation Devices
- ✓ Introduction to Mark V Control System
- ✓ HMI Overview and Features
- ✓ Configuring HMI Displays
- ✓ Basic Operations of the Mark V Control System
- ✓ Introduction to Gas Turbine Simulator for Mark V

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Course Outline

✓ **02 Day Two**

Operation of Gas Turbine Systems

- ✓ Operating Requirements for Lube Oil Systems
- ✓ Hydraulic Oil Systems Overview
- ✓ Fuel Systems and Their Operating Requirements
- ✓ Plant Start-Up Procedures
- ✓ Synchronizing and Loading Procedures
- ✓ Normal Operation Methods
- ✓ Plant Shutdown Procedures
- ✓ Hands-On Simulation of Normal Operations

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Course Outline

✓ **03 Day Three**

Troubleshooting and Fault Finding

- ✓ Introduction to Troubleshooting Techniques
- ✓ Fault Finding Methods
- ✓ Configuring Sequencing and Trip Historical Displays
- ✓ Using Software Tools for Troubleshooting Alarms
- ✓ Editing Sequencing in Mark V Control System
- ✓ Configuring Inputs and Outputs (Hardwired and Networked)
- ✓ Diagnosing Common Operational Problems
- ✓ Practical Exercises with Gas Turbine Simulator

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Course Outline

✓ **04 Day Four**

Advanced Configuration and Calibration

- ✓ Advanced HMI Configuration
- ✓ Configuring Operating Displays
- ✓ Calibration of Servo-Actuated Valves
- ✓ Calibration of LVDTs and Other Devices
- ✓ Practical Hands-On Calibration Exercises
- ✓ Emissions Control Principles
- ✓ Methods of Achieving Emissions Control
- ✓ Practical Applications and Case Studies

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Course Outline

✓ **05 Day Five**

Real-Time Simulation and Practical Scenarios

- ✓ Overview of Real-Time Simulators
- ✓ Simulating Typical Plant Problems
- ✓ Analysing and Troubleshooting Simulated Scenarios
- ✓ Responding to Operational Alarms
- ✓ Discussing Causes and Effects of Problem Scenarios
- ✓ Corrective Actions to Restore Normal Operations
- ✓ Review of Key Concepts and Skills
- ✓ Final Practical Assessment Using Gas Turbine Simulator

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Sept. 28, 2026	Oct. 2, 2026	5 days	4250.00 \$	UAE , Abu Dhabi
June 14, 2027	June 18, 2027	5 days	5950.00 \$	USA , Los Angeles
April 5, 2027	April 9, 2027	5 days	4250.00 \$	UAE , Dubai
Nov. 23, 2026	Nov. 27, 2026	5 days	4250.00 \$	UAE , Dubai

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