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MU060:
Gas Turbine Operations with MK V Speedtronic Control System

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Training Description:

This course covers the operations of a Gas Turbine as controlled by a MK V Speedtronic Control System. The course will introduce the participants to the Major Components of a Gas Turbine and associated systems. Operational sequences will be discussed for the major varieties of GE Gas Turbines and Gas Turbine applications. The use of a Gas Turbine Speedtronic simulator will allow students to view various operational problems and introduce the concepts of basic troubleshooting and fault finding.

Training Objectives:

By the end of the training, participants will be able to:

- ✓ Understand the operations of a MK V control system
- ✓ Apply and manage the operations of a gas turbine using MK V

Training Designed for:

This course is intended for Plant Operators, Technicians responsible for the day-to-day operations of a Gas Turbine. The course will also benefit Maintenance Personnel, instrumentation Personnel who are involved in the troubleshooting of operational problems, shift supervisors and team leaders and others technical staff.

Training Requirement:

"Hand's on practical sessions, equipment and software will be applied during the course if required and as per the client's request."

Contents can be adapted to your specific wishes. It is therefore possible to focus on specific modules of the training course as per client's learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Program:

DAY ONE:

- ❖ PRE-TEST
- ❖ Introduction
- ❖ Overview of Major Components of a Gas Turbine
  - Compressor Component Overview
  - Combustor Component Overview
  - Turbine Component Overview
- ❖ Overview of Piping Schematics Description and Operation
  - Lube Oil System
  - Hydraulic Oil System
  - Control Oil System

DAY TWO:

- ❖ Overview of Piping Schematics Description and Operation (Continuation)
  - Gas Fuel System
  - Liquid Fuel System

- Starting System
- Cooling and Sealing Air System
- Other Major Systems

❖ Control System Overview
- Starting Sequence
- Control System Parameter

DAY THREE:

❖ MK V Control System Overview
❖ Overview of Mk V Control System
- Gas Turbine Operations
- Start-up/Shut down sequences
- Loading and Unloading
- MK V Operational Screens
- Exhaust Temperature
- Wheel space Temperatures
- Vibration
- Alarm Handling
- Alarm Acknowledging
- Alarm Resetting
- Trip History

DAY FOUR:

❖ Control System Overview
- Startup Control
- Speed Control
- Temperature Control

❖ Gas Turbine Protection
- Over temperature protection
- Overspeed Protection
- Combustion Monitoring

DAY FIVE:

❖ Troubleshooting / Fault Finding
- Alarm Handling (Process and Diagnostic)
- Basic Ladder Logic Troubleshooting

❖ Course Conclusion
❖ POST-ASSESSMENT and EVALUATION

Training Fees:

TBA as per the course location - This rate includes participant's manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.

Training Certificate(s):

CMCT Internationally recognized certificate(s) will be issued to each participant who completed the course.

Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:

- 30% Lectures, Concepts, Role Play
- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Gamification, Software & General Discussions
- Pre and Post Test

Training Timings:

Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:00	Recess (Prayer Break & Lunch)
13:00 - 14:00	Last Session

For training registrations or in-house enquiries, please contact:
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