



HARNESS THE POWER  
OF KNOWLEDGE

**Comprehensive Training on Gas  
Turbine Control System: Mark Vie**

**TRAIN**



## Introduction

Gas turbines are critical components of power generation and other industrial applications

The Mark VIe is a widely used distributed control system (DCS) for gas turbines, providing comprehensive control, monitoring, and protection capabilities

This comprehensive 5-day training program, delivered by Global Business Minds, will equip participants with in-depth knowledge and practical skills in the design, implementation, operation, and maintenance of Mark VIe gas turbine control systems

### Day 1: Fundamentals of Mark VIe Gas Turbine Control Systems

- Overview of gas turbines and their control systems
- Introduction to the Mark VIe architecture, hardware, and software components
- Understanding the Mark VIe control strategy and loop interactions
- Familiarization with Mark VIe communication protocols and networks

### Day 2: Design and Implementation of Mark VIe Gas Turbine Control Systems

- Applying Mark VIe design methodologies and tools to create a gas turbine control system architecture
- Selecting and configuring Mark VIe hardware and software components
- Implementing Mark VIe communication protocols and networks
- Testing and commissioning Mark VIe gas turbine control systems for optimal performance

### Day 3: Operation of Mark VIe Gas Turbine Control Systems

- Familiarization with Mark VIe operation procedures and protocols
- Monitoring and controlling gas turbine parameters using Mark VIe human-machine interfaces (HMIs)
- Implementing Mark VIe startup, shutdown, and abnormal operation procedures
- Responding to Mark VIe alarms and events
- Trending gas turbine data to identify trends and anomalies

### Day 4: Maintenance of Mark VIe Gas Turbine Control Systems

- Developing and applying Mark VIe maintenance strategies and preventive maintenance programs
- Troubleshooting common Mark VIe system problems
- Analyzing and interpreting Mark VIe system performance data
- Implementing cybersecurity measures to protect Mark VIe gas turbine control systems
- Staying up-to-date with the latest advancements in Mark VIe gas turbine control technology

### Day 5: Advanced Topics in Mark VIe Gas Turbine Control Systems

- Exploring the integration of Mark VIe with enterprise systems and supervisory control and data acquisition (SCADA) systems
- Implementing advanced control strategies for gas turbines
- Addressing emerging trends and future directions in Mark VIe gas turbine control technology

### Target Audience

This training program is designed for engineers, technicians, and professionals involved in the design, implementation, operation, and maintenance of Mark VIe gas turbine control systems in various industries, including:

- Power generation
- Oil and gas
- Petrochemical
- Utilities
- Manufacturing

### Learning Outcomes

Upon completion of this training program, participants will be able to:

- Demonstrate in-depth knowledge of Mark VIe gas turbine control systems, including their architecture,

hardware, software, and control strategy

- Apply Mark VIe design methodologies and tools to create effective gas turbine control system architectures
- Select, configure, and implement Mark VIe hardware and software components
- Establish and maintain Mark VIe communication protocols and networks
- Operate Mark VIe gas turbine control systems safely and efficiently
- Implement Mark VIe maintenance strategies and preventive maintenance programs
- Troubleshoot common Mark VIe system problems
- Analyze and interpret Mark VIe system performance data
- Integrate Mark VIe with enterprise systems and supervisory control and data acquisition (SCADA) systems
- Implement advanced control strategies for gas turbines
- Stay up-to-date with the latest advancements in Mark VIe gas turbine control technology
- Address emerging trends and future directions in Mark VIe gas turbine control technology

Certificate Delivered by Global Business Minds:

- Certificate of Completion in Gas Turbine Control System: Mark VIe

Additional Notes

- This detailed professional training program can be tailored to specific industry requirements and application needs

- Hands-on exercises and case studies can be customized to reflect real-world challenges and scenarios faced by participants

- The training can be delivered in a blended format, combining in-person sessions with online modules for flexibility and accessibility

- Global Business Minds can provide ongoing support and resources to participants to ensure their continued success in Mark VIe gas turbine control systems