



HARNESS THE POWER
OF KNOWLEDGE

**Advanced Training on DCS
(Distributed Control Systems)
and SCADA (Supervisory Control
and Data Acquisition) Systems**

TRAIN



Introduction

Distributed Control Systems (DCS) and Supervisory Control and Data Acquisition (SCADA) Systems are critical components of industrial automation, providing real-time monitoring, control, and management of complex processes in various industries

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 DCS and SCADA Systems

Day 1: Fundamentals of DCS and SCADA Systems

- Overview of DCS and SCADA Systems and their roles in industrial automation
- Understanding the architecture, components, and functions of DCS and SCADA Systems
- Familiarization with DCS and SCADA System terminology, standards, and regulations
- Exploration of the applications of DCS and SCADA Systems in various industries

Day 2: DCS Design and Implementation

- Applying DCS design methodologies and tools to create a DCS architecture
- Selecting and configuring DCS hardware and software components
- Implementing DCS communication protocols and networks
- Testing and commissioning DCS systems for optimal performance

Day 3: SCADA Design and Implementation

- Understanding SCADA system design principles and methodologies
- Selecting and configuring SCADA hardware and software components
- Implementing SCADA communication protocols and networks
- Designing and implementing SCADA human-machine interfaces (HMIs) for effective monitoring and control

Day 4: DCS and SCADA Operation and Maintenance

- Familiarization with DCS and SCADA operation procedures and protocols
- Implementing DCS and SCADA maintenance strategies and preventive maintenance programs
- Troubleshooting common DCS and SCADA system problems
- Monitoring and analyzing DCS and SCADA system performance data

Day 5: Advanced Topics in DCS and SCADA Systems

- Exploring the integration of DCS and SCADA Systems with enterprise systems
- Implementing cybersecurity measures for DCS and SCADA Systems
- Staying up-to-date with the latest advancements in DCS and SCADA technology
- Addressing emerging trends and future directions in DCS and SCADA Systems

Target Audience

This training program is designed for engineers, technicians, and professionals involved in the design, implementation, operation, and maintenance of DCS and SCADA Systems in various industries, including:

- Oil and gas
- Petrochemical
- Power generation
- Pulp and paper
- Chemical
- Pharmaceutical
- Water and wastewater treatment
- Manufacturing
- Food and beverage
- Utilities

Learning Outcomes

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

- Demonstrate in-depth knowledge of DCS and SCADA Systems, including their principles, architectures, components, functions, and applications
- Apply DCS and SCADA design methodologies and tools to create effective system architectures
- Select, configure, and implement DCS and SCADA hardware and software components
- Establish and maintain DCS and SCADA communication protocols and networks
- Design and implement SCADA HMIs for efficient monitoring and control
- Implement DCS and SCADA operation procedures and protocols
- Develop and apply DCS and SCADA maintenance strategies and preventive maintenance programs
- Troubleshoot common DCS and SCADA system problems
- Analyze and interpret DCS and SCADA system performance data
- Integrate DCS and SCADA Systems with enterprise systems
- Implement cybersecurity measures to protect DCS and SCADA Systems
- Stay up-to-date with the latest advancements in DCS and SCADA technology
- Address emerging trends and future directions in DCS and SCADA Systems

Certificate Delivered by Global Business Minds:

- Certificate of Completion in DCS Distributed Control Systems and SCADA Systems

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 DCS and SCADA technology