Applied Industrial Motor Controls

Level 2

The **Applied Industrial Motor Controls** certification introduces learners to the essential components, circuits, and troubleshooting techniques used in industrial motor control systems. This course builds both technical and soft skills through hands-on exercises using fault-enabled training systems. Learners explore the operation of individual components such as relays, contactors, and starters, then apply that knowledge in real-world industrial circuit scenarios.

This certification prepares students to install, commission, and troubleshoot a range of common electric motor controllers used in manufacturing and processing facilities.

Industry Recognized Certification Topics

- Safety Protocols in Motor Control Environments
- Principles of Industrial Electric Motors
- Contactors, Relays, and Pilot Devices
- Control Circuit Operation and Assembly
- Three-Phase Motor Operation and Reversing
- Braking and Reduced Voltage Starters
- Use of Wiring Diagrams and Schematics for Troubleshooting

Industry Recognized Certification Competencies

- Industrial Electrical Safety
- Component Operation and Function
- Motor Circuit Construction
- Troubleshooting and Diagnostics
- Control Schematic Interpretation
- Motor Protection and Efficiency Strategies

Units - 6 / Labs - 5