



## **Mastering The Saudi National Electrical Code (SBC 401)**

# Mastering The Saudi National Electrical Code (SBC 401)

## Course Overview:

This course is designed to equip professionals with a complete understanding of the Saudi National Electrical Code SBC 401. This course covers essential aspects such as electrical code compliance, safety standards, and installation practices specific to Saudi Arabia. Participants will gain expertise in electrical safety measures, including protection against electric shock, overcurrent, and voltage disturbances, ensuring compliance with Saudi Building Code regulations. Through this training, attendees will enhance their knowledge of electrical equipment selection, system design, and verification processes, crucial for maintaining low-voltage installations and fire protection systems.

## Target Audience:

- Electrical Engineers
- Compliance Officers
- Safety Inspectors
- Electrical Inspectors
- Facility Managers
- Maintenance Supervisors

## Targeted Organizational Departments:

- Engineering and Maintenance
- Safety and Compliance
- Facilities Management
- Quality Assurance
- Construction and Project Management

## Targeted Industries:

- Construction
- Manufacturing
- Oil and Gas
- Utilities
- Real Estate Development

## Course Offerings:

By the end of this course, participants will be able to:

- Interpret and apply the Saudi National Electrical Code SBC 401
- Ensure compliance with electrical safety standards in Saudi Arabia
- Design and verify electrical systems according to SBC 401
- Implement protection against electric shock, overcurrent, and voltage disturbances
- Conduct thorough inspections and safety checks on electrical installations

## Training Methodology:

The course employs a blend of theoretical instruction and practical applications. It includes case studies, group discussions, interactive sessions, and hands-on exercises. Participants will engage in real-world scenarios to apply SBC 401 principles, focusing on electrical safety, system design, and compliance.

## Course Toolbox:

- Course Manual and Workbooks
- Access to Online Resources and Code References
- Checklists and Templates for Compliance and Safety Checks

## Course Agenda:

### Day 1: Scope and Fundamental Principles

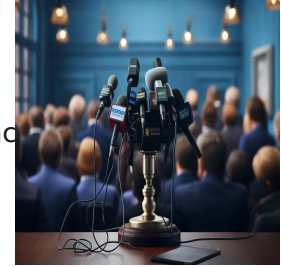
- **Topic 1:** Overview and Scope of SBC 401
- **Topic 2:** Fundamental Principles of Electrical Safety
- **Topic 3:** Protection Against Electric Shock
- **Topic 4:** Protection Against Thermal Effects and Overcurrent
- **Topic 5:** Managing Fault Currents and Voltage Disturbances
- **Topic 6:** Electrical System Design: Considerations and Best Practices
- **Reflection & Review:** Key Takeaways and Initial Reflections

### Day 2: Assessment of General Characteristics

- **Topic 1:** Purposes, Supplies, and Structural Considerations
- **Topic 2:** Types of Distribution Systems and Earthing
- **Topic 3:** Supplies for Safety Services and Standby Systems
- **Topic 4:** Compatibility and Maintainability in Electrical Installations
- **Topic 5:** Ensuring Safety Services and Emergency Preparedness
- **Topic 6:** Division of Installation and Organizational Compliance
- **Reflection & Review:** Day's Learnings and Practical Applications

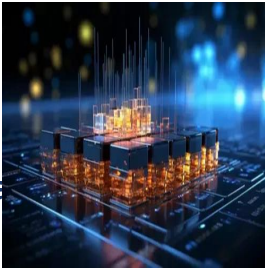
## Day 3: Protection Training Course Categories

- **Topic 1:** Comprehensive Protection Against Electric Shock
- **Topic 2:** Special Locations and Installation Considerations
- **Topic 3:** Power Factor Improvement Techniques
- **Topic 4:** Protection Against Lightning
- **Topic 5:** Fire Detection and Alarm Systems in Electrical Safety
- **Topic 6:** Final Assessment and Certification Process
- **Reflection & Review:** Course Summary and Final Reflections



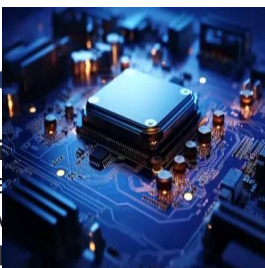
## Day 4: Selection and Erection of Electrical Equipment

- **Topic 1:** Compliance with Standards and Operational Conditions
- **Topic 2:** Selection and Installation of Wiring Systems
- **Topic 3:** Ensuring Accessibility and Safety of Electrical Equipment
- **Topic 4:** Identification and Prevention of Mutual Detrimental Influences



## Day 5: Final Assessment and Certification

- **Topic 2:** Special Locations and Installation Considerations
- **Topic 3:** Power Factor Improvement Techniques
- **Topic 4:** Protection Against Lightning
- **Topic 5:** Fire Detection and Alarm Systems in Electrical Safety
- **Topic 6:** Final Assessment and Certification Process
- **Reflection & Review:** Course Summary and Final Reflections



## How to Choose the Right Course for You

This course is designed to provide you with the latest updates and best practices in electrical safety, ensuring they are well equipped to manage and verify complex electrical systems within their organizations. This course stands out by offering a holistic approach to mastering SBC 401, catering to professionals across various industries and organizational levels.

IT Security Training & IT Training Courses

Leadership and Management Training Courses

Legal Training, Procurement and Contracting Courses

Maintenance Training and Engineering Training Courses



# Training Course Categories



**Marketing, Customer Relations, and Sales Courses**



**Occupational Health, Safety and Security Training Courses**



**Oil & Gas Training and Other Technical Courses**



**Personal & Self-Development Training Courses**



**Quality and Operations Management Training Courses**



**Secretarial and Administration Training Courses**





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## Training Cities



**Accra - Ghana**



**Amman - Jordan**



**Amsterdam - Netherlands**



**Baku - Azerbaijan**



**Bali - Indonesia**



**Bangkok - Thailand**



**Barcelona - Spain**



**Cairo - Egypt**



**Cape town - South Africa**



**Casablanca - Morocco**



**Doha - Qatar**



**Dubai - UAE**



**Geneva - Switzerland**



**Istanbul - Turkey**



**Jakarta - Indonesia**



**Johannesburg - South Africa**



## Training Cities



**Kuala Lumpur - Malaysia**



**Langkawi - Malaysia**



**London - UK**



**Madrid - Spain**



**Manama - Bahrain**



**Milan - Italy**



**Nairobi - Kenya**



**Paris - France**



**Phuket - Thailand**



**Prague - Czech Republic**



**Rome - Italy**



**Sharm El-Sheikh - Egypt**



**Tbilisi - Georgia**



**Tokyo - Japan**



**Vienna - Austria**



**Zanzibar - Tanzania**



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# Training Cities



**Zoom - Online  
Training**



# WHO WE ARE

Agile Leaders is a renowned training center with a team of experienced experts in vocational training and development. With 20 years of industry experience, we are committed to helping executives and managers replace traditional practices with more effective and agile approaches.

## OUR VISION

We aspire to be the top choice training provider for organizations seeking to embrace agile business practices. As we progress towards our vision, our focus becomes increasingly customer-centric and agile.

## OUR MISSION

We are dedicated to developing value-adding, customer-centric agile training courses that deliver a clear return on investment. Guided by our core agile values, we ensure our training is actionable and impactful.

## WHAT DO WE OFFER

At Agile Leaders, we offer agile, bite-sized training courses that provide a real-life return on investment. Our courses focus on enhancing knowledge, improving skills, and changing attitudes. We achieve this through engaging and interactive training techniques, including Q&As, live discussions, games, and puzzles.



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