



# إتقان الكود الوطني السعودي للكهرباء (SBC) 401)



## إتقان الكود الوطني السعودي للكهرباء (401 SBC)

الرجوع: 36311\_23215 التاريخ: 02 - 06 Feb 2027 الموقع: دبي - الراسمور: Road Zayed Sheikh Marriott by Inn Residence Euro 6500

### 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: Introduction to SBC 401 and Electrical Safety Standards

- Overview of Saudi National Electrical Code SBC 401
- Topic 1: Scope and Fundamental Principles of SBC 401
- Topic 2: Characteristics of Electrical Installations
- Topic 3: Protection Against Electric Shock: Principles and Practices
- Topic 4: Challenges and Opportunities in Electrical Safety Compliance
- Topic 5: The Role of Electrical Codes in Modern Infrastructure
- Topic 6: Key Takeaways and Initial Reflections
- Reflection & Review

### Day 2: Electrical System Design and Compliance

- Electrical System Design Requirements Under SBC 401
- Topic 1: Electrical Equipment Selection and Installation Standards
- Topic 2: Overcurrent Protection: Strategies and Best Practices
- Topic 3: Voltage Disturbances and Electromagnetic Compatibility
- Topic 4: Ensuring Safety in Low Voltage Installations
- Topic 5: Regulatory Framework and Compliance Challenges in Saudi Arabia
- Topic 6: Day's Learnings and Practical Applications
- Reflection & Review

### Day 3: Advanced Electrical Safety Measures

- Protection Against Thermal Effects and Fire Hazards Topic 1: •
- Ensuring Safety in Electrical Installations: Standards and Practices Topic 2: •
- Verification of Electrical Installations: Methods and Tools Topic 3: •
- The Holistic Approach to Risk Management in Electrical Systems Topic 4: •
- Case Studies: Learning from Real-world Compliance Scenarios Topic 5: •
- Strategic and Operational Management in Electrical Safety Topic 6: •
- Analysing Case Studies and Drawing Conclusions Reflection & Review: •

### Day 4: Specialized Electrical Systems and Safety Protocols

- Specialized Electrical Systems: Safety and Compliance Topic 1: •
- Protection Against Voltage Disturbances: Best Practices Topic 2: •
- Safety Measures for Specific Installations and Locations Topic 3: •
- Financial Management and Budgeting for Electrical Safety Topic 4: •
- Strategic Planning for Compliance and Risk Mitigation Topic 5: •
- Leading and Controlling Safety Activities in Electrical Installations Topic 6: •
- Review of Safety Protocols and Strategic Planning Reflection & Review: •

### Day 5: Practical Applications and Course Conclusion

- Practical Applications of SBC 401 in Electrical Installations Topic 1: •
- Integrating SBC 401 into Organizational Compliance Strategies Topic 2: •
- Advanced Case Studies: Complex Electrical Safety Challenges Topic 3: •
- Developing a Sustainable Compliance Culture Topic 4: •
- Future Trends in Electrical Code Standards and Safety Topic 5: •
- Final Assessment and Certification Process Topic 6: •
- Course Summary and Final Reflections Reflection & Review: •

### How This Course is Different from Other SBC 401 Courses:

This course offers a unique blend of complete theoretical knowledge and practical skills tailored to the specific regulatory environment of Saudi Arabia. Unlike other courses, it provides in-depth coverage of local electrical standards and compliance requirements, with a strong focus on practical application through case studies and interactive sessions. Participants will benefit from expert insights into 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.



## فئات الدورات التدريبية



HR TRAINING & DEVELOPMENT

دورات إدارة و تطوير الموارد البشرية



دورات إدارة و تحليل البيانات ودورات علم البيانات



دورات إدارة الجودة وتطوير العمليات



الدورات التدريبية في مجال البيئة والاستدامة



دورات التسويق وإدارة علاقات العملاء وإدارة المبيعات



دورات التدريب القانوني والمشتريات والتعاقدات



دورات الاتصال الجماهيري و السياسات والعلاقات العامة



دورات النظم السبراني ودورات تقنية المعلومات



دورات الصيانة ودورات المجالات الهندسية المتنوعة



دورات الصحة والسلامة والأمن المهني



دورات السكرتارية و إدارة المكاتب



دورات الحوكمة وإدارة المخاطر والامتثال



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## فئات الدورات التدريبية



دورات معتمدة من قبل هيئات دولية



دورات في مجالات القيادة والإدارة



دورات المهارات الشخصية وتطوير الذات



دورات المحاسبة و التمويل و دورات الإدارة  
المالية



دورات مكتب إدارة المشاريع وإدارة المشاريع  
الرشيقية

## مدن التدريب



أمستردام - هولندا



أكرا - غانا



أثينا - اليونان



أبوظبي - الإمارات العربية المتحدة



الدوحة - قطر



الدار البيضاء - المغرب



الجبيل - المملكة العربية السعودية



استنبول - تركيا



المنامة - مملكة البحرين



الكويت - الكويت



القاهرة - مصر



الرياض - المملكة العربية السعودية



بانكوك - تايلند



بالي - جمهورية إندونيسيا



بأكو - أذربيجان



باريس - فرنسا

## مدن التدريب



بوكيت - تايلاند



بورتو - البرتغال



برشلونة - إسبانيا



براغ - جمهورية التشيك



جوهانسبرغ - جنوب إفريقيا



جنيف - سويسرا



جاكرتا - جمهورية إندونيسيا



تبليسي - جورجيا



سان دييغو - الولايات المتحدة الأمريكية



زنجبار - تنزانيا



روما - إيطاليا



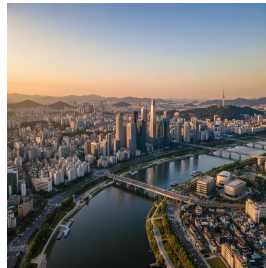
دبي - الإمارات العربية المتحدة



شيكاغو - الولايات المتحدة الأمريكية



شرم الشيخ - مصر



سيول - كوريا الجنوبية



سنغافورة - سنغافورة

## مدن التدريب



عمان - المهلكة التردنية الهاشمية



طوكيو - اليابان



طشقند - أوزبكستان



طرابزون - تركيا



كيب تاون - جنوب إفريقيا



كوالالمبور - ماليزيا



فيينا - النمسا



عن بعد - منصة زووم



مدريد - إسبانيا



مأربيا - إسبانيا



لندن - المملكة المتحدة



لانكاوي - ماليزيا



ميونخ - ألمانيا



ميلان - إيطاليا



مونترو - سويسرا



مسقط - سلطنة عمان

## مدن التدريب



نيس - فرنسا



نيروبي - كينيا

# 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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