

Construction Site Electrical System Design: Comprehensive Course

2026 000000 31 - 27
Cairo (Egypt)

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Construction Site Electrical System Design: Comprehensive Course

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Course Description

This intensive 5-day course provides comprehensive training in construction site electrical system design. Participants will learn to design safe, efficient, and code-compliant electrical systems for various construction site applications. The course covers fundamental principles, practical design techniques, and industry best practices.

Learning Objectives

- Design safe and efficient electrical systems for construction sites
- Apply relevant electrical codes and standards to site designs
- Perform load calculations and select appropriate equipment
- Implement effective grounding and protection systems
- Develop skills in troubleshooting and maintenance of site electrical systems

Course Modules

Day 1: Fundamentals of Construction Site Electrical Systems

- Introduction to site electrical systems
- Safety considerations and regulations
- Power distribution principles
- Site electrical equipment overview

Day 2: Load Calculations and System Sizing

- Load estimation techniques
- Diversity factors and demand calculations
- Cable and conductor sizing
- Generator and transformer selection

Day 3: Grounding and Protection Systems

- Grounding system design
- Overcurrent protection
- Ground fault protection
- Lightning protection systems

A graphic of a chessboard with several chess pieces (a king, a queen, and a pawn) on it. The text 'UK Training' is written above the word 'PARTNER' in a bold, sans-serif font.

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Day 4: Power Distribution and Control

- Switchgear and distribution boards
- Motor control centers
- Temporary power solutions
- Energy management systems

Day 5: Special Systems and Practical Applications

- Lighting system design
- Communication and data systems
- Renewable energy integration
- Case studies and design exercises

Practical Wins for Participants

- Ability to design compliant and efficient site electrical systems
- Skills to optimize power distribution and reduce energy costs
- Expertise in implementing robust safety measures
- Confidence in tackling complex electrical design challenges

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