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المكتب الهندسي لخدمات التكنولوجيا والبرمجيات

Engineering office for Technology and Software Services

Electrical Safety



⚡ Course Title: Electrical Safety
Code: 28005EL-TECH

Duration: 3 Weeks (Total: 9 Hours – 3 hours/week)

Level: All Levels

Format: Practical + Theoretical Training

Introduction

Electricity is essential in nearly every industry—but it comes with serious hazards if not handled properly. This course provides a comprehensive understanding of electrical safety principles to ensure technicians and workers are equipped to protect themselves and others in the workplace. With a strong focus on real-world risks, the course includes both theoretical knowledge and hands-on training.

Main Branch: United building – E Shams –Front NBE
, El Siouf _Alexandria

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Course Description

This course is designed to train participants on identifying electrical hazards, applying proper safety protocols, using protective equipment, and responding to emergencies. Whether you're working in industrial maintenance, construction, manufacturing, or facility management, this course will give you the tools to avoid injuries, property damage, and legal violations. Participants will go through risk assessment, accident prevention strategies, and mandatory safety regulations, with plenty of practical sessions.

Course Objectives

- Understand the **fundamentals of electrical safety**.
- Identify **common electrical hazards** in the workplace.
- Apply **personal safety procedures and use protective equipment properly**.
- Be prepared for **electrical emergencies** and respond safely.

Course Content

Week 1 – Electrical Hazards (3 hours)

- Introduction to electrical safety.
- Types of hazards: direct contact, indirect contact, short circuits.
- Causes of electrical accidents: overloads, exposed wires, faulty equipment.
- **Effects of electric shock** on the human body and basic first aid.

Week 2 – Safety Procedures and Prevention (3 hours)

- **Personal Protective Equipment (PPE)**: insulated gloves, safety boots, goggles.
- Lockout/Tagout procedures and power isolation.
- Safe work practices in high-voltage environments.
- How to **respond to electrical emergencies**: electrical fires, shocks, etc.

Week 3 – Practical Training and Safety Assessment (3 hours)

- **Hands-on training on PPE usage and safety tools**.
- Simulations for emergency scenarios and safe response.
- **Final theoretical and practical assessment** on electrical safety rules.
- Quick review of common mistakes and safety violations.

Learning Outcomes

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

- Recognize and understand **electrical risks** in various environments.
- Implement **effective safety procedures** during electrical work.

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- Use safety gear properly and confidently.
- **Respond correctly** to electrical incidents and reduce workplace hazards.



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