

**TRANSTECH SOLUTIONS OCCUPATIONAL  
SAFETY & HEALTH TRAINING &  
CONSULTANTS LLC.**



*"Solutions Through Innovations"*

**Electrical Circuit 5 Days  
Training**



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**TSLOSHTC a Training Provider with a Mission**

# Electrical Circuit 5 Days Training

## Course objectives

At the end of this course the participant will be able to:

- Evaluate the direct current (DC) relationships between voltage, current, and resistance
- Determine alternating current (AC) characteristics including amplitude, frequency, and phase
- Identify the properties of an inductor and of a capacitor
- Using basic test equipment to evaluate and to determine basic electrical characteristics
- Apply safety considerations when measuring electrical values or working around electrical equipment
- Compare bridge operation in balanced and unbalanced condition
- Understand poly-phase voltages and currents found in the industrial environment
- Understand how to Transformer & Motor are operating?
- Overview electricity hazards
- Understand system protection in simple way.

## Course Outline

- The Theory of Electricity
- Electrical Concepts & Terms
- DC Electricity, AC Electricity
- Transformers & Motors, Circuit Elements
- AC Power & Power Factor
- Electrical Safety, System Protection
- Grounding/Earthing
- Electrical Symbols, Electrical Measurements
- Electromechanical & Semi-conductor Devices

# Electrical Circuit 5 Days Training

## Who Should Attend

The course is designed for:

- Electrical Engineers
- Electrical Technicians
- Power System Engineers
- Safety Engineers
- Consulting Engineers
- Project Engineers
- Power System Technicians
- Electrical Contractors
- Tradesman Electricians

## Course Methodology

The course is designed to maximize delegate benefit from the outset. The goals of each participant are discussed to ensure their needs are fulfilled as far as possible. Questions are encouraged throughout particularly at the daily wrap up sessions. This provides opportunities for participants to discuss specific issues and if possible find appropriate solutions. Case studies are employed to highlight particular points and appropriate video materials used to illustrate particular conditions.

## Assessment & Certification

All candidates that pass the written assessment shall receive a Certificate for successfully completing the Electrical Circuit Training. Others will be provided with attendance certificates.

## Our Instructor

All our instructor have 30+ years' experience and high degree such as:

- Master's degree,
- Doctoral degree
- Professional degree.

## Course Prerequisite

- English Language (Average Fluency)
- Basic Electrical Engineering (Preferable)

## Venue

5 Stars Hotel in Abu Dhabi, or Dubai  
and Available Online as per your requisite

## Duration

5 Days Training

## Course Language

- English
- Arabic



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