

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



*"Solutions Through Innovations"*

## AC Electric Motors & Drives 5 Days Training



---

**TSLOSHTC a Training Provider with a Mission**

## Course objectives

Upon completion of all the Sessions in this study course, the participant will be able to:

- Understand the operation, construction and characteristics of AC induction motors.
- Understand the principles of AC variable frequency control
- Identify the differences between variable and constant torque applications
- Understand the principle operation of Variable Frequency Drives for different applications.
- Select motors for Variable Frequency Drives.
- Overview different types of motor duties.
- Read & explain the motor NP data.
- Motor de-rating factors.
- Interpret motor performance curves.
- Understand the VFD techniques etc.

## Course Outline

- Introduction to Different Types of Electric Motors
- Fundamentals of Motor Technology
- Solid-State Devices & Converters
- High Power Drives
- Soft Starters
- Speed Control of AC Motors
- The Selection of AC Convertors for VSD Applications
- The sources of electromagnetic interference (EMI)
- Protection of AC VFD & Motors
- Installation and Commissioning Of AC VSD

## Who Should Attend

The course is designed for:

- Electrical Engineers
- Electrical Technicians
- Power System Engineers
- 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 AC Electric Motors & Drives Course. 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



**Address: Gasos Building, Mussaffah M15, Office No. 13th, 14th 15th**

**Abu Dhabi, United Arab Emir**

**Tel.: +971 (02) 5533 088, Phone: +971 50 6521 626**

**Email: [marketing21@transtk.com](mailto:marketing21@transtk.com), [tsltager@gmail.com](mailto:tsltager@gmail.com)**