

BASIC ELECTRICAL FOR MOTOR CONTROL AND DRIVE FOR ELECTRICAL NONE-ELECTRICAL PERSONNEL

OVERVIEW

Single Phase power is a two wire Alternating Current (AC) power circuit powers the household items like lights, TV which is used to power 120 volt plug loads and smaller HVAC systems. In single phase circuit, there will be only one phase, i.e the current will flow through only one wire and there will be one return path called neutral line to complete the circuit.

Three Phase power is a three wire Alternating Current (AC) power circuit. Three phase is a medium or high voltage system with Three live conductors and one neutral. For three phase, power can be drawn either by the delta configuration or the wye configuration.

In industries, more than 60 or 70% load is of motors which are designed for three phase for higher efficiency.

COURSE OUTLINE

- Basic electrical safety : Electrical safety working procedures
- Electrical fundamentals
- Electrical test equipment
- Understanding your building's electrical system
- Electrical safety in the workplace
- Basic troubleshooting techniques

OBJECTIVES

- Understand how Electricity Is produced
- Understand of Electrical Test Equipment
- Understanding of DC motors, AC motors (single and three-phase)
- Understanding of AC and DC motor and drive concepts and terminology.
- Recognize how variable frequency AC drives operate
- Determine the need for variable speed drives in industrial processes

SBL CLAIMABLE



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