

Electrical Basic - Series Parallel Circuit Analysis and Power Factor Calculation

OVERVIEW

Electricity is vital in our daily life to supply power to all electrical appliances, equipments and systems. Electrical system is deemed to be complicated and hazardous if one does not understand the basic principles of electricity, the components and functions of the electrical system they are working on. Over the years, there are many electrical accidents being reported due to the lack of electrical knowledge among the users. Therefore this course is essential to provide the basic knowledge of electricity on how one can easily understand the basic concept used to calculate the loading current, voltage drop, and etc on a series & parallel circuitry. Apart from this, anyone who goes through this course will also get an in-depth knowledge of power factor, cause and effect of low power factor as well as some of the calculation to determine the correct capacitor size to improve the low power factor.

TARGET MARKET

Electricians, Electrical Maintenance Supervisors, Electrical Service Technicians, or any technical and non-technical staff who requires an overview of the basic electricity concept, series & parallel circuit analysis and power factor analysis.

COURSE OUTLINE

- Basic Electricity Terms and Units
- Direct and Alternating Current
- Frequency
- Magnetism
- Inductance & Capacitance
- Series & Parallel Circuit Analysis
- Power Factor in AC Circuits
- Power Factor Analysis

OBJECTIVES

- Introduction of the basic principles of Electricity
- Series & parallel circuit analysis
- Complete guide to power factor analysis

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

- Calculate basic electrical quantities (volt, resistance, current) with different formulas
- Solve and analyze series and parallel circuits
- Understanding the cause and effect of power factor and way to improve it
- Calculate the size of capacitor needed to improve low power factor issue

SBL CLAIMABLE



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