

Electrical Engineering for Non-Electrical Engineers

Fundamentals of theoretical and practical electrical engineering

29 – 31 May 2023

This is an **interactive Virtual Instructor-Led Training (VILT)**.
Kindly ensure you have a working Webcam and Headset with Microphone.

KEY BENEFITS OF ATTENDING

- **MASTER** the principles and concepts associated with AC and DC electricity, and the distinction between these two realms of electricity
- **DETERMINE** the role played by voltage and current angles in the determination of power factor
- **STUDY** how addition of power factor correcting capacitors results in improvement of power factors and the mystery behind “addition of too much capacitance”
- **COMPREHEND** and **APPLY** important electrical system concepts
- **EXAMINE** and **GAIN** appreciation of the important AC voltage representations in phasor, polar and rectangular forms
- **GAIN** an introduction to three-phase AC, Y and Delta configuration of loads and sources
- **CONCEPTUALISE** how transformers work and their voltage transformation role
- **DISCUSS** the role of NEC, NFPA 70 E and explore the field of electrical design, electrical safety and arc flash hazard
- **BRAINSTORM** how PLCs work and how to interpret contemporary electrical control drawings
- **INTERPRET** electrical one-line and comprehensive wiring diagrams
- **ANALYSE** how electrical power bills are calculated under large industrial and commercial contract scenarios

- ✓ Strictly limited number of seats to ensure maximum learning and experience for all delegates
- ✓ Thorough and customised program to address current market concerns
- ✓ Provision of a digital certificate to delegates at the end of the training