



Electrical Engineering for Non Electrical Engineers

Awarded 8 CDP by Suruhanjaya Tenaga | HRDF Claimable

Duration: 2 Days (9.00am – 5.00pm)

Date: 30th – 31st October 2019 Location: Royal Hotel, KL.

Introduction

A two day interactive course that will assist non-electrical engineering and technical staff such as architects, mechanical engineers, civil engineers and technical personnel involved in project related to the design, maintenance and construction of electrical power systems. Such associated engineers and technical staff often have to collaborate with electrical engineers, technicians and electricians and may lose an understanding of electrical concepts communicated during projects involving electrical installations. Acquiring a basic knowledge of electrical engineering will improve related engineering and technical personnel's concept of basic electrical principles, assisting with communication and mutual understanding of projects related to electrical installation, construction and maintenance.

Course Objective

- ✓ Understand the basic theory of electrical system/electricity
- ✓ Understand the single phase and three phase system
- ✓ Recognize the direct current and alternating current
- ✓ Broaden knowledge on electrical power system
- ✓ Understand the electrical safety practices
- ✓ Gain knowledge on electrical cost calculation
- ✓ Understand earthing system of electrical installation
- ✓ Understand operation/working of protection system

Who Should Attend?

This course is designed for those who have a special interest in electrical safety, Technicians, Electricians and Mechanical personnel who wish to upgrade and improve their skills and knowledge, junior engineer, plant engineer, operation supervisor, non-electrical supervisor, non-electrical engineer, young engineer, Safety & Health Practitioners as well as Green Card Holders.



Trainer's Profile

Ir. Yap Chee Wah, IEM/BEM Pt. 2, P.ENG, MIEM is a Professional Engineer registered with the Board of Engineers Malaysia. He has more than 10 years of experience in the electrical consultancy services. He is experienced in housing, commercial, SREP and Feed-In-Tariff(F.I.T.) projects of different sizes and complexities. The example of projects he involved are Mixed Township Development at Bdr. Bkt. Beruntung, Government Office Building Lot 5G2 Putrajaya, UiTM Jengka Pahang, 1MW & 3.2MW Power Generation by Landfill Gas at Bkt. Tagar, Renewable Energy projects such as Biogas, Biomass and Solar, Electrical Cabling Works Identification and Related Tests of Existing Electrical Installation for Data Centre at Affin Bank. In the 1MW & 3.2MW power generation projects at Bkt Tagar, Ir. Yap has experience the design, installation, testing and commissioning and operating the LV, 11KV and 33KV distribution and transmission network. His involvements includes but not limited to tendering & bidding, contract management, engineering & project management, construction, procurement, quality assurance, Factory Acceptance Test, Pre-Commissioning and Commissioning.

Prior to passing his IEM/BEM Pt. 2 graduate examination, Ir. Yap worked as a production executive in a production assembly lines, controlling and managing the day to day production operation in the assembly department. During this period, Ir. Yap has undergone several training courses as to upgrade the skill and knowledge which are beneficial to his workplace such as Good Manufacturing Practices For Shopfloor Improvement, Poka Yoke Mistake Proofing, Effective Supervisors, ISO 9000: Documentation and Implementation, Supervisory Method And Effectiveness (PSME) From AOTS, JAPAN.

After completing his secondary high school, Ir. Yap started his technical education in Institute Latihan Perindustrian(ILP), Kuala Lumpur. As a part-time student, he further pursued his electrical engineering diploma, higher diploma, City & Guilds (803) in Institute Megatech, Kuala Lumpur.

Ir. Yap has registered with Jabatan Pembangunan Kemahiran of Kementerian Sumber Manusia, Malaysia as Pakar Industri(PIND), Panel NOSS(PNOSS), Pegawai Pengesah Luaran(PPL), Pegawai Pengesah Luaran-Sistem Latihan Dwi Nasional(PPL-SLDN) and Train-The-Trainer(TTT) from HRDF/PSME.

Ir. Yap is also a Registered Wireman NIL(PW4) with Suruhanjaya Tenaga and currently Registered Electrical Energy Manager(REEM) and Competent Electrical Engineer with Suruhanjaya Tenaga. During the employment with a contractor firm, Ir. Yap worked as a Project Engineer. He has gained the experiences of hands-on wiring works in different industries. He also hold the Certificate of Competency on Grid-Connected Photovoltaic System(GCPV) for Wireman & Chargeman with SEDA.

Ir. Yap has conducted public and in-house trainings in the field of electrical engineering on topics of Electrical Engineering for Non-Electrical Engineer, Electrical Wiring System for Non Electrical Engineer, Electrical Safety, Electrical Safety for Contractors & Construction Workers, Keselamatan Elektrik, Electrical Wiring and Safety to participants from private as well as government sector.