

2017



Proposal on
BASIC ELECTRICAL PROGRAMME
(Medium Pressure Course)

**ANOTHER VALUE ADDED PROGRAMME ENTITLED ENHANCING
AND EMPOWERING TECHNICAL WORKFORCE**



Venue

KEDAH INDUSTRIAL SKILLS
AND MANAGEMENT DEVELOPMENT CENTRE (KISMEC)
126, Jalan PKNK 1/1
Kawasan Perusahaan Sungai Petani
08000 Sungai Petani
Kedah Darul Aman



BASIC ELECTRICAL PROGRAMME

(Medium Pressure)

The Hand-On Approach Course

ABOUT US

Kedah Industrial Skills and Management Development Centre (KISMEC) were established in 1993 with the assistance of the Federal Government, State Government and Industrialist Sector. Our training programmes are approved by Human Resource Development Fund (HRDF) of the Ministry of Human Resources and SME Corporation (formerly known as SMIDEC), Ministry of International Trade and Industry are designed to meet the current and future needs of the industrial sector. We are non-profit organization formed the purpose of providing skills training to the industrial sector, services company, private also government sector.

KISMEC also has developed an international training network with Japan, ASEAN Countries, Australia and USA. International guest speaker and lecturers are invited to conduct training, seminar and workshop sessions.

KISMEC also as an Accreditation Centre for Training and Examination by Energy Commission

INTRODUCTION

This course offers an introductory course for the benefit of the non-electrical engineering professionals who are active in the electric utility industry and who wish to gain a better understanding of the basic principles guiding the operation and the design of electrical systems and electrical safety in work place. Health and safety aspects are incorporated into the modules to provide participants with knowledge on performing work functions with due care.

OBJECTIVE

On completion of the course participant gain the followings:

- To understand the basic principles of electricity and function of components
 - To understand the area of the electrical installation, maintenance, testing, repair and inspection of the Low Voltage electrical equipments.
 - Required knowledge on the Laws related to the handling power supply as mentioned in the Electricity Act Supply
 - Use safe work practices when working with electricity and work safely with electrical equipments
 - Effectively work in teams to solve complex electrical system problems
 - Use measuring and test equipment
 - Understand the electrical shock and first Aid treatment
 - Create opportunities for career advancement and development.
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COURSE DETAIL AND CONTENTS

The topics to be covered:

- Electrical Power Distribution System
- Principles of electricity – Ohm's Law and networks
- AC and DC Electrical Theory (Single and three phase)
- Protection Devices in Low Voltage Installation
- Introduction to electrical equipment safety
- Measuring instruments and electrical effect in fluids
- Termination of cable & earthing system
- Introduction to Street Lighting system
- Health and environmental control and work area protection
- Principles of Safety – Electrical hazard, requirement for safety and work on live system / close to live system etc
- Electrical shock and methods of shock prevention – shock direct and indirect contact, earth leakage circuit breaker and principles of shock protection etc.
- First Aid Treatment / Electricity Act. Supply and Regulation
- Practical session – Wiring Installation, Maintenance & Trouble shooting

COURSE METHODOLOGY

- Lectures
- Practical session (Wiring Installation, Motor Control, Main Switch Board etc.)
- Project Work

COURSE FEE

- RM 1,250. 00/ person

Inclusive training material (theory & practical), File holder and Certificate of Completion.

PSMB Approved Programme – 100% claimable form PSMB. Application has to be approved by PSMB.

WHO SHOULD ATTEND

General Workers, Operators, Production Group, Technicians and those who are interested in acquiring further understanding and knowledge of power (electricity) supply.

DURATION

6 months (90 hours) / Time: 08.00 pm to 11.00 pm @ weekend
(Company can be proposed the training schedule)

TRAINING VENUE

KISMEC

Lot 126, Jln PKNK 1/1, Kawasan Perusahaan Sungai Petani
08000 Sungai Petani, Kedah DA

LIST OF CLIENTS

- a) LEMBAGA KEMAJUAN PERTANIAN MUDA (MADA)
(Bahagian Industri Padi), Ibupejabat Negeri Kedah)
 - b) JABATAN PERTANIAN MALAYSIA
(Unit Logi-Benih Padi)
 - c) FELCRA PLANTATION SERVICES SDN BHD
(Pusat Benih Padi & Makmal), Seberang Perak, Perak
 - d) INOKOM SDN BHD, KULIM, KEDAH
 - e) YUASA BATTERY (M) SDN BHD, SUNGAI PETANI
 - f) UNOMEDICAL INDUSTRIES (M) SDN BHD, Sungai Petani
 - g) JABATAN PERIKANAN MALAYSIA
Pusat Pengeluaran & Penyelidikan Benih Udang Kebangsaan
 - h) KOLEJ KOMUNITI ARAU, PERLIS
 - i) KOLEJ KOMUNITI SUNGAI SIPUT, PERAK
 - j) ILHAM/MARA, KUALA LUMPUR (IKM Trainers)
 - k) PERNEC ADVANCED NETWORK SDN BHD
 - l) MINEBEA-MATSUSHITA MOTOR (M) SDN BHD
 - m) MARDI
 - n) TENAGA NASIONAL BERHAD (TNB)
 - o) MPSPK
 - p) INSTITUT LATIHAN KECEMERLANGAN MARA (ILKM)
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TRAINING FACILITIES

- CHARGEMAN AO LAB
 - 800A Main Switch Board x 2 units
 - 1200A Main Switch Board (2 incomer)
 - Complete sets of accessories for Motor Control Starter
- OVERHEAD LINE SYSTEM
 - 2 lot concrete pole (complete sets overhead system)
(Ariel Bundle Cable, Conductor Bare & Street Lighting sets)
- CHARGEMAN A4-1 & A4 LAB
 - Simulator for Synchronising Gen-sets, Feeder Pillar
- WIRING BAY (DOMESTIC AND INDUSTRIAL INSTALLATION)
 - Bay for wiring installation (single phase and three phase)
 - Complete sets accessories for wiring system (domestic & Industry)

- ELECTROMAGNETIC CONTROL PANEL
 - Complete set Electrical Machine for testing
 - CUT AWAY INDUSTRIAL MOTOR (Sectional Model)
 - CONCEAL WIRING BAY, FEEDER PILLAR IN/OUT DOOR
 - 'RUMAH CONTOH' purpose for wiring installation
 - SIMULATOR FOR SYNCHRONISING GEN-SET
 - SOLAR 'STAND ALONE' SYSTEM
 - WIND TURBINE SYSTEM
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COURSE ADMINISTRATION

Enquiries: Please contact Mr Suhaimi / Mrs Amylia for more information:-

KISMEC

ELECTRICAL AND ELECTRONIC DEPARTMENT

Lot 126, Jalan PKNK 1/1, Kawasan Perusahaan Sungai Petani

08000 Sungai Petani, Kedah DA

Tel : 04 4414619 / 4414621, Fax : 04 4414622 / 4427653

Email: kismec@kismec.org.my @ suhaimi@kismec.org.my

Web: www.kismec.org.my

TRAINER PROFILE

Name : **SYAHRUL NIZAM BIN CHE DAHALAN**

I/C : 800313-09-5043

Academic qualification

- SPM
- IKM (ELECTRICAL)
- Vocational Training Officer (VTO) - CIAST

Skills Qualification

- DKM (Level 4) Electrical
- CHARGEMAN A1- IKBN
- WIREMAN PW4 – IKM
- CIDB – Electrical Wiring
- GIATMARA -Air Conditioning & Refrigeration Certificate
- CSTP / RSS Certificate by Jabatan Alam Sekitar

Experiences

- Technician – Zon Utara Refrigeration Sdn Bhd
- TNB Distribution – OJT
- Senior Technician – Tunjang Delima Sdn Bhd
- Facilities Leader Shift – Potensi Kita SB
- Electrical Trainer – KISMEC