NITEC IN TECHNOLGY - ELECTRICAL TECHNOLOGY (POWER & CONTROL)

Course Code: NTELT / Plan Code: NTELTPC

COURSE OBJECTIVE
This course provides students with the skills and knowledge to install, test and maintain electrical installations, electrical machines, digital communication, smart metering and monitoring systems as well as renewable energy and electric vehicle electrical infrastructure systems according to engineering specifications and relevant codes of practice.

COURSE STRUCTURE

S/N	Module Details	Module Code	Module Objectives
M1	**Residential Installation and Testing** 39 hrs (T) 81 hrs (P) Credits: 6 Prerequisite: Nil	EE2106FP Equivalent Codes EE2104FP EE2104FPR	On completion of the module, students should be able to design, install, test and maintain single phase electrical installation and wiring systems in residential premises in compliance with relevant local standards, regulations and codes of practice.
M2	**Industrial and Commercial Installation and Testing** 39 hrs (T) 81 hrs (P) Credits: 6 Prerequisite: Nil	EE2107FP Equivalent Codes EE2102FP EE2102FPR	On completion of the module, students should be able to design, install, test and maintain three phase electrical installation and wiring systems in industrial and commercial premises in compliance with relevant local standards, regulations and codes of practice.
M3	**Power System and Switchboard** 30 hrs (T) 90 hrs (P) Credits: 6 Prerequisite: Nil	EE2109FP Equivalent Codes EE3102FP EE3102FPR	On completion of the module, students should be able to perform proper isolation, lockout tag out procedures as well as maintain low voltage electrical switchboards, power monitoring system and temporary electrical supply system in compliance with relevant local standards, regulations and codes of practice.
M4	**Sustainable Energy Systems** 18 hrs (T) 102 hrs (P) Credits: 5 Prerequisite: Nil	EE3107FP Equivalent Codes EE3101FP EE3101FPR	On completion of the module, students should be able to install, test and/or maintain solar photovoltaic (PV) systems for residential premises, electrical industrial equipment and appliances and electric vehicle (EV) charging equipment and systems in compliance with relevant local standards, regulations and codes of practice.
M5	**Smart Living Systems** 12 hrs (T) 108 hrs (P) Credits: 5 Prerequisite: Nil	EE3108FP Equivalent Codes EE2101FP EE2101FPR	On completion of the module, students should be able to program, test and maintain smart home control systems in compliance with relevant local standards, regulations and codes of practice.
M6	**Electrical Machines and Applications** 30 hrs (T) 90 hrs (P) Credits: 6 Prerequisite: Nil	EE3109FP Equivalent Codes EE2103FP EE2103FPR	On completion of the module, students should be able to maintain electrical motor installations including their associated conventional, digital and advanced control systems for various industrial motor applications in compliance with relevant local standards, regulations and codes of practice. .

Abbreviations: T – Theory, P – Practical

CREDITS FOR CERTIFICATION
Total of 34 credits from successful completion of 6 modules.

OTHER ENTRY REQUIREMENTS
- Passed *ISC* in Electrical Wiring; or
- Passed *ISC* in Electrical Fitting; or

- Passed *ISC* in Electrical Motor Manufacturing; or
- Passed *ISC* in Instrument Fitting; or
- Passed *ISC* in Lift Adjustment & Maintenance; or
- Passed *ISC* in Lift Installation; or
- Passed *ISC* in Electrical Servicing.

VENUE
ITE College East, ITE College West

Note:
1) Applicant must be free from colour appreciation deficiency.
2) For information on application for Installer Licence, contact IMDA, Licensing Department on Tel: 62024361 or 62111948, and on application for Electrical Worker Licence, contact Energy Market Authority via email: ema_enquiry@ema.gov.sg or Tel: 68358075.
3) Depending on demand, not all the modules in the CET *Nitec* in Technology courses will be offered in each intake. Where the modules are offered and there is insufficient enrolment, the classes will be cancelled and a full refund will be given to the affected students.