

NITEC IN TECHNOLOGY – FACILITY TECHNOLOGY (MECHANICAL & ELECTRICAL SERVICES)

Course Code: NTFCT / Plan Code: NTFCTMES

COURSE STRUCTURE

S/N	Module Details	Module Code	Module Objectives
M1	Electrical Services 60 hrs (T) 60 hrs (P) Credits: 7 Prerequisite: Nil	CB2101FPR	On completion of the module, students should be able to interpret electrical circuit diagrams, install lightings and power circuits with conduits and trunkings, replace lightings and accessories, rectify faults in lighting and power circuits, conduct insulation resistance and continuity tests and inspect lighting protection system.
		Equivalent Codes CB2005PA CB2101FP	
M2	Mechanical Services 60 hrs (T) 60 hrs (P) Credits: 7 Prerequisite: Nil	CB2102FPR	On completion of the module, students should be able to interpret blueprint drawings, carry out bench-fitting work, fabricate and repair metal components, perform shielded metal arc welding up to horizontal welding position (2G), carry out preventive maintenance of machinery and engines, small diesel-driven generators and pumps.
		Equivalent Codes CB2006PA CB2102FP	
M3	Residential Air-Conditioning Services 60 hrs (T) 60 hrs (P) Credits: 7 Prerequisite: Nil	CB2103FPR	On completion of the module, students should be able to fabricate refrigeration piping; perform leak testing, evacuation and charging of refrigeration system; routine maintenance, parts replacement, install and test residential air-conditioning units; perform preventive maintenance for water cooler and dehumidifier; troubleshoot, repair and service air-cooled air-conditioning equipment.
		Equivalent Codes CB2007PA CB2103FP	
M4	Piping and Plumbing Services 60 hrs (T) 60 hrs (P) Credits: 7 Prerequisite: Nil	CB2104FPR	On completion of the module, students should be able to maintain, troubleshoot, service, repair and fabricate domestic and industrial piping system; replace plumbing and sanitary appliances, fittings, heaters (instant and storage type); and prepare piping layout and landscape irrigation drawings.
		Equivalent Codes CB2008PA CB2009PA CB2010PA CB2104FP	
M5	Fire Detection and Protection Systems 60 hrs (T) 60 hrs (P) Credits: 6 Prerequisite: Nil	CB3102FPR	On completion of the module, students should be able to service and maintain fire-fighting equipment such as fire-alarm and detection systems, hose-reel system, automated sprinkler systems, private hydrant systems and fire suppression systems; inspect portable fire extinguishers, one and two-ways emergency voice communication systems in the industrial, commercial and residential buildings.
		Equivalent Codes CB3106PA CB3102FP	
M6	Facility and System Maintenance 60 hrs (T) 60 hrs (P) Credits: 7 Prerequisite: Nil	CB3103FPR	On completion of the module, students should be able to maintain various components in a facility such as water pumping control system, standby generators plus emergency lightings, audio visual system, public address system, closed circuit television system, access control system, auto door, door locks plus closers, painting and masonry works.
		Equivalent Codes CB3107PA CB3103FP	

Abbreviations: T – Theory, P – Practical

CREDITS FOR CERTIFICATION

Total of 41 credits from successful completion of 6 modules.

Note:

- 1) The training schedule of lessons is subject to change.
- 2) 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.