

HIGHER NITEC IN TECHNOLOGY – FACILITY MANAGEMENT

Course Code: HTFCM

COURSE OBJECTIVE

This course provides students with the skills and knowledge to supervise the maintenance and management of the typical facilities in a commercial, industrial, institutional or residential building in accordance with authority requirements to ensure optimum functioning of the plant, equipment and systems. These facilities include air-conditioning system, plumbing sanitary and fire protection systems, Building Management System, and other electrical and mechanical systems.

COURSE STRUCTURE

S/N	Module Details	Module Code	Module Objectives
C1	Mechanical Systems and Services 72 hrs (T) 48 hrs (P) Credits: 6 Prerequisite: Nil	CB4009FP	On completion of the module, students should be able to interpret building system plan, perform inspection of automated doors and pump system, conduct operational test of standby generator, as well as maintain the fire-protection and fire-fighting systems.
		Equivalent Codes CB4001PA CB4001PAR	
C2	Electrical Systems and Services 72 hrs (T) 48 hrs (P) Credits: 7 Prerequisite: Nil	CB4010FP	On completion of the module, students should be able to interpret electrical circuit diagrams, conduct continuity and insulation resistance tests, and coordinate setting up of AV system. They should be able to inspect the lightning protection and earthing system, conduct first line maintenance of uninterruptable power supply, and coordinate maintenance of Extra Low Voltage system as well as the power and lighting circuits.
		Equivalent Codes CB4002PA CB4002PAR	
C3	Air-conditioning Systems 72 hrs (T) 48 hrs (P) Credits: 7 Prerequisite: Nil	CB4011FP	On completion of the module, students should be able to maintain air-conditioning system and supervise components replacement, maintain chilled water centralised system as well as cold room refrigeration system.
		Equivalent Codes CB4003PA CB4003PAR	
C4	Building Management System 72 hrs (T) 48 hrs (P) Credits: 6 Prerequisite: Nil	CB4012FP	On completion of the module, students should be able to interpret the various types of control systems linked to Building Management System (BMS), conduct system wellness check for main and sub-systems, manage common causes of faults, generate and compile system reports linked to BMS, and also supervise manned security services.
		Equivalent Codes CB4004PA CB4004PAR	
C5	Building Services Systems Analysis and Management 72 hrs (T) 48 hrs (P) Credits: 8 Prerequisite: Nil	CB5010FP	On completion of the module, students should be able to interpret architectural drawings, and maintain fittings and fixtures, plumbing sanitary systems as well as the masonry works of the building. Students should be able to supervise swimming pool maintenance, landscaping services, pest control and cleaning activities, monitor lift and escalator maintenance, as well as carry out inspection of painting works and manage electronic car park system.
		Equivalent Codes CB5002PA CB5002PAR	
C6	Project Management and Supervision 72 hrs (T) 48 hrs (P) Credits: 5 Prerequisite: Nil	CB5011FP	On completion of the module, students should be able to plan for resource deployment and work schedule, monitor project activities in accordance with safety, security and statutory requirements, and communicate with stakeholders to ensure co-operation and smooth completion of project.
		Equivalent Codes CB5003PA CB5003PAR	

Abbreviations: T - Theory, P - Practical

CREDITS FOR CERTIFICATION

Total of 39 credits from successful completion of 6 modules.

VENUE

ITE College East, ITE College West

Note:

- 1) Applicant must be free from colour appreciation deficiency.
- 2) The training schedule of lessons is subject to change.
- 3) Depending on the demand, not all the modules in the CET *Higher 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.