

NITEC IN BUILT ENVIRONMENT (VERTICAL TRANSPORTATION)

CERTIFICATION

Credits required for certification:

Core Modules	: 44
Life Skills Modules	: 9
Elective Modules	: 4
<hr/> Total	<hr/> : 57

COURSE STRUCTURE

Module Title	Credits
CORE MODULES	
Electrical Services	6
Mechanical Services	6
Residential Air-Conditioning Services	6
Lift and Escalator System and Equipment Maintenance	5
Lift and Escalator Power and Control System Maintenance	5
Lift and Escalator System Inspection and Testing	8
Industry Attachment	8
ELECTIVES (COURSE SPECIFIC)	
Energy Audit	2
Building Fire-Fighting and Protection Systems	2
ELECTIVES (JOINT ITE-INDUSTRY)	
Swimming Pool Maintenance	2
Pest Management	2
ELECTIVES (GENERAL) AND LIFE SKILLS MODULES	
For details, click here	

Note: The offer of electives is subject to the training schedule of respective ITE Colleges. Students are advised to check with their Class Advisors on the availability of the elective modules they intend to pursue.

MODULE OBJECTIVES

Core Modules

Electrical Services

On completion of the module, students should be able to interpret electrical circuit diagrams; install conduits and trunkings; replace light fittings and accessories; rectify faults in electrical circuits; and conduct insulation resistance and continuity tests.

Mechanical Services

On completion of the module, students should be able to repair mechanical parts, service centrifugal pump, motor-drive assembly, air-cooled petrol and liquid-cooled diesel-driven portable generator, as well as replace faulty component of drive mechanism and door fittings.

Residential Air-Conditioning Services

On completion of the module, students should be able to install refrigeration piping, set up basic refrigeration system, install unitary and split-type air conditioners, replace faulty fan coil and condensing unit, and carry out preventive maintenance for residential air-conditioning system, water cooler and dehumidifier.

Lift and Escalator System and Equipment Maintenance

On completion of the module, students should be able to identify and explain the operation, interpret lift drawings, as well as maintain, service and repair mechanical equipment and components of lift and escalator system in accordance with lift engineering specifications and codes of practice.

Lift and Escalator Power and Control System Maintenance

On completion of the module, students should be able to maintain, service and repair lift controllers, electrical equipment, cables, components, as well as safety switches of lift and escalator systems in accordance with lift engineering specifications and codes of practice, including performing functionality checks of lift control system connection to BMS.

Lift and Escalator System Inspection and Testing

On completion of the module, students should be able to inspect and evaluate the condition of a lift hoistway, oversee the correct installation of lift equipment and components, as well as carry out heat run and commissioning tests on lift systems in accordance with lift engineering specifications and codes of practice. Students should also be able to troubleshoot, adjust and carry out routine and periodic maintenance of lift system and equipment, perform mandatory lift and escalator tests, as well as identify and recommend upgrading and improvement works to clients.

Industry Attachment

On completion of the module, students should be able to acquire and apply a cluster of key technical, social and methodological competencies in the occupation.

Electives (Course Specific)

Energy Audit

On completion of the module, students should be able to conduct on-site energy audit using the appropriate measuring instruments and tools and recommend corrective measures for energy savings.

Building Fire-Fighting and Protection Systems

On completion of the module, students should be able to service fire alarm and detection system, inspect one and two-ways emergency voice communication systems, automated sprinkler system, fire-fighting hydrants, hose reel system, fire suppression system and inspect portable types of fire extinguishers.

Electives (Joint ITE-Industry)

Swimming Pool Maintenance

On completion of the module, students should be able to carry out servicing, maintenance, repairs on swimming pool filtration system, and its equipment including carrying out water quality checks.

Pest Management

On completion of the module, students should be able to carry out pest inspection work, prepare worksite for pest management, use pesticides and pest management equipment, prepares pesticides and supervise pest control operations performed by workers hired by the company. Upon completion of the course, students will be qualified to be licensed as technicians under the Control of Vectors and Pesticides Act 1998.

Electives (General) and Life Skills Modules

For details, click [here](#).