

HIGHER NITEC IN VERTICAL TRANSPORTATION (2 YEARS)

CERTIFICATION

Credits required for certification:

Cluster Core Modules	: 12
Specialisation Modules	: 27
Internship Programme Modules	: 8
Life Skills Modules	: 9
Cross-Disciplinary Core Modules	: 6
Electives	: 6
Total	: 68

COURSE STRUCTURE

Module Title	Credits
CLUSTER CORE MODULES	
Commercial Electrical Installation	3
Electrical Design & Drafting	3
Electrical Motor & Control	3
Electrical Machine & Drive	3
SPECIALISATION MODULES	
Lift Mechanical System I	3
Lift Mechanical System II	3
Lift Power System	3
Lift Control System	3
Lift Inspection & Testing	3
Escalator Maintenance, Inspection & Testing	3
Lift & Escalator Electronic System	3
Advanced Lift & Escalator Maintenance	3
Internet of Elevator	3
INTERNSHIP PROGRAMME MODULE	
Internship Programme	8
ELECTIVES (GENERAL) AND LIFE SKILLS MODULES	
For details, click here	

Note: The offer of Cross-Disciplinary Core (CDC) modules and 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 CDC and elective modules they intend to pursue.

MODULE OBJECTIVES

Cluster Core Modules

Commercial Electrical Installation

On completion of this module, students should be able to manage, inspect and test commercial electrical installation, maintain temporary electrical supply system as well as manage smart monitored emergency lighting and fire alarm system.

Electrical Design & Drafting

On completion of the module, students should be able to design electrical installation and prepare electrical drawing of electrical installation.

Electrical Motor & Control

On completion of the module, students should be able to maintain DC and AC motors as well as maintain motor control circuit and equipment.

Electrical Machine & Drive

On completion of the module, students should be able to maintain transformer installation, electrical motor and drive system installation as well as select electrical motor for application.

Specialisation Modules

Lift Mechanical System I

On completion of the module, students should be able to maintain mechanical equipment and systems in lift machine room, lift landing and lift car.

Lift Mechanical System II

On completion of the module, students should be able to maintain mechanical equipment and systems in lift hoistway and lift pit as well as mechanical systems and components of lift safety equipment.

Lift Power System

On completion of the module, students should be able to maintain lift safety system, emergency battery operated power supply unit, travelling cables and other forms of electrical cabling as well as perform measurement of power quality.

Lift Control System

On completion of the module, students should be able to maintain lift controller, lift control devices, car door operator and braking system.

Lift Inspection & Testing

On completion of the module, students should be able to inspect installation of lift and lift hoistway, as well as perform heat run and commissioning tests on lift system.

Escalator Maintenance, Inspection & Testing

On completion of the module, students should be able to maintain escalator equipment and systems, test escalator safety devices and perform commissioning tests on escalator/moving walk system.

Lift & Escalator Electronic System

On completion of the module, students should be able to maintain drives, devices, sensors and electronic circuitry of lift and escalator/moving walk systems as well as troubleshoot electronics faults.

Advanced Lift & Escalator Maintenance

On completion of the module, students should be able to perform troubleshooting and adjustments of lift and escalator/moving walk components and safety circuits, including assessing its overall condition, as well as prepare lift and escalator/moving walk systems for audit.

Internet of Elevator

On completion of the module, students should be able to perform remote monitoring and evaluate faults using remote intervention.

Electives (General) and Life Skills Modules

For details, click [here](#).