

## NITEC IN TECHNOLOGY – BUILT ENVIRONMENT (VERTICAL TRANSPORTATION)

Course Code: NTBEV / Plan Code: NTBEV

### COURSE OBJECTIVE

This course provides students with the technical skills and knowledge to maintain, troubleshoot, repair and inspect traction lifts and escalators in residential, institutional and commercial buildings in accordance with codes of practice and statutory requirements and engineering specifications.

### COURSE STRUCTURE

S/N	Module Details	Module Code	Module Objectives
M1	<b>Electrical Services</b> 60 hrs (T) 60 hrs (P) Credits: 6 Prerequisite: Nil	CB2106FP	On completion of the module, students should be able 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.
		Equivalent Code CB2101FPR	
M2	<b>Mechanical Services</b> 60 hrs (T) 60 hrs (P) Credits: 6 Prerequisite: Nil	CB2107FP	On completion of the module, students should be able 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.
		Equivalent Code CB2102FPR	
M3	<b>Lift and Escalator System and Equipment Maintenance</b> 36 hrs (T) 84 hrs (P) Credits: 5 Prerequisite: Nil	CB3206FP	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.
		Equivalent Code CB3104PAR	
M4	<b>Lift and Escalator Power and Control System Maintenance</b> 36 hrs (T) 84 hrs (P) Credits: 5 Prerequisite: Nil	CB3207FP	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.
		Equivalent Code CB3402PAR	
M5	<b>Lift and Escalator System Inspection and Testing</b> 30 hrs (T) 90 hrs (P) Credits: 8 Prerequisite: Nil	CB3208FP	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.
		Equivalent Codes *CB3403PAR & CB3404PAR	

Abbreviations: T – Theory, P – Practical

\*Manual exemption after completion of Lift Inspection and Commissioning (CB3403PAR), and Lift Maintenance Management (CB3404PAR) modules.

**CREDITS FOR CERTIFICATION**

Total of 30 credits from successful completion of 5 modules.

**OTHER ENTRY REQUIREMENTS**

Passed *ISC* in Electrical Servicing; or  
Passed *ISC* in Mechanical Servicing; or  
Passed *ISC* in Facility Services; or  
Passed *ISC* in Residential Air-Conditioning; or  
Passed *ISC* in Residential Plumbing; or  
Passed *ISC* in Electrical Wiring.

**VENUE**

ITE College East

Note:

- 1) Applicant must be free from colour appreciation deficiency.
- 2) The training schedule of lessons is subject to change.
- 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.