***HIGHER NITEC* IN TECHNOLOGY – VERTICAL TRANSPORTATION**
Course Code: HT2VT / Plan Code: HT2VT

COURSE OBJECTIVE
This course equips students with skills and knowledge to maintain, service, troubleshoot, repair, inspect and test lift, escalator and moving walk in accordance with codes of practice, statutory requirements and engineering specifications.

COURSE STRUCTURE
Cluster Core/Specialisation Modules

S/N	Module Details	Module Code	Module Objectives
MSC: ***Lift Mechanical System***			
C1	**Lift Mechanical System I** 20 (T) 40 (P) Credits 3 Prerequisite: Nil	**VT43001FP** Equivalent Code Nil	On completion of the module, students should be able to maintain mechanical equipment and systems in lift machine room, lift landing and lift car.
C2	**Lift Mechanical System II** 20 (T) 40 (P) Credits 3 Prerequisite: Nil	**VT43002FP** Equivalent Code Nil	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.
MSC: ***Lift Power, Control & Electronic System***			
C3	**Lift Power System** 20 (T) 40 (P) Credits 3 Prerequisite: Nil	**VT43003FP** Equivalent Code Nil	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 cablings as well as perform measurement of power quality.
C4	**Lift Control System** 20 (T) 40 (P) Credits 3 Prerequisite: Nil	**VT43004FP** Equivalent Code Nil	On completion of the module, students should be able to maintain lift controller, lift control devices, car door operator and braking system.
C5	**Lift & Escalator Electronic System** 30 (T) 30 (P) Credits 3 Prerequisite: Nil	**VT53001FP** Equivalent Code Nil	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.
MSC: ***Lift & Escalator Inspection & Testing***			
C6	**Lift Inspection & Testing** 20 (T) 40 (P) Credits 3 Prerequisite: Nil	**VT43005FP** Equivalent Code Nil	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.
C7	**Escalator Maintenance, Inspection & Testing** 20 (T) 40 (P) Credits 3 Prerequisite: Nil	**VT43006FP** Equivalent Code Nil	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.

MSC: *Advanced Technology in Vertical Transportation*			
C8	**Advanced Lift & Escalator Maintenance** 30 (T) 30 (P) Credits 3 Prerequisite: Nil	**VT53002FP** Equivalent Code Nil	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.
C9	**Internet of Elevator** 30 (T) 30 (P) Credits 3 Prerequisite: Nil	**VT53003FP** Equivalent Code Nil	On completion of the module, students should be able to perform remote monitoring and evaluate faults using remote intervention.

Abbreviations: T - Theory, P - Practical, MSC - Modular Skills Certificate

CREDITS FOR CERTIFICATION

Total of 27 credits from successful completion of 9 Cluster Core/Specialisation modules.

Applicants who do not meet the entry requirements for Clustser Core/Specialisation modules will need to complete 12 credits from 4 Sector Foundation modules before taking Cluster Core/Specialisation modules.

Sector Foundation Modules

S/N	Module Details	Module Code	Module Objectives
F1	**Workplace Safety, Health & Environment** 15 (T) 45 (P) Credits 3 Prerequisite: Nil	**EG33001FP** Equivalent Code Nil	On completion of the module, students should be able to apply Workplace Safety and Health (WSH) policies, Environmental Management System procedures and practices in the planning, preparation and execution of work activities to ensure a safe and reliable workplace environment.
F2	**Data & Digital Essentials** 21 (T) 39 (P) Credits 3 Prerequisite: Nil	**EG33002FP** Equivalent Code Nil	On completion of the module, students should be able to prepare data for analysis, use online tools for collaborative work and maintain information security when online.
F3	**Electrical Fundamentals** 30 (T) 30 (P) Credits 3 Prerequisite: Nil	**EG33003FP** Equivalent Code Nil	On completion of the module, students should be able to interpret circuit schematic and board layout, perform DC circuit connection and in-circuit measurement.
F4	**Sustainable Engineering** 36 (T) 24 (P) Credits 3 Prerequisite: Nil	**EG33005FP** Equivalent Code Nil	On completion of the module, students should be able to determine key contributors to environmental changes and the challenges involved in implementing sustainable initiatives, and propose effective strategies to promote sustainability and address environmental challenges across various industries.

Abbreviations: T - Theory, P - Practical

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