

Lift and Escalator Course for Engineers

INTRODUCTION

This technical course covers design principles, installation, testing and commissioning, operations and maintenance including periodic examination and inspection of lifts and escalators. This 5-day course comprises both classroom lectures and practical sessions. Participants will gain in-depth technical knowledge on lifts and escalators, with emphasis on the examination, inspection and testing of the equipment.

OBJECTIVES

This course aims to deepen the understanding of practising engineers in the examination, inspection and testing of lifts and escalators.

CONTENTS

The course is conducted over 5 days comprising 3.5 days of theory session (Module A) and 1.5 days of practical session (Module B). Participants are required to sit for an end-of-course assessment (for Module A).

MODULE A - THEORY

- Overview of Singapore's current regulatory regime for lifts and escalators
- Types of Vertical Transportation Equipment
- Performance capabilities, limitations and selection of equipment
- Design considerations and specification
- Functions of the equipment sub-systems and safety features/components of lifts and escalators
- Electrical installations and appliances
- Inspection of sub-systems and audit of critical information
- Installation methodologies for lift, escalator and passenger walkway
- Inspection hold points, functional testing and commissioning
- Assessment of standard conformity
- Authority submission requirements
- Maintenance of equipment

MODULE B - PRACTICAL

- Inspection and measurement
- Function and safety test
- Operation testing
- Load test

LECTURER

ER PATRICK FOONG, *Managing Director, Singapore Green Engineers Pte Ltd*

Er Foong holds an MSc. in Engineering from the National University of Singapore. He specialises in energy-efficient retrofits to existing chiller plants and escalator system inspection. Er Foong is a Professional Engineer (Mechanical) and Specialist Professional Engineer (Lift and Escalator) registered with the Professional Engineers Board, Singapore. He is also a Registered Inspector (M&E), Authorized Examiner (Lifting Equipment), QuESS, Energy Auditor, SCEM and Green Mark Professional.

TARGET AUDIENCE

- Professional Engineers in Mechanical or Electrical Engineering disciplines
- Technical professionals working in the lift and escalator industry who wish to gain knowledge in lift and escalators may also attend the course

Priority will be given to professional engineers in mechanical or electrical engineering disciplines. Attendance in this course will be considered as one of the requirements for registration as a Specialist Professional Engineer (SPE) in Lift and Escalator Engineering.

AWARD

This course involves assessment. An e-Certificate of Successful Completion (e-CSC) for the course will be issued to participants who:

- Achieve at least 75% class attendance; and
- Pass the assessment.



BLENDED LEARNING

Comprises online and classroom session. May include pre-recorded session, live streaming/webinar and discussion forum, where applicable.

ONLINE LEARNING VIA WEBINAR

Frequency: Bi-annual

CLASSROOM HANDS-ON LEARNING

Venue: ITE College East

Venue: BCA Braddell Campus

FEE (incl of GST): S\$3,450.00

Application of SkillsFuture Singapore (SSG) funding is in progress, and subject to approval.

CPD POINTS

PEB: -



REGISTRATION

To register, please log into our Online StoreFront (OSF) at <https://eservices.bcaa.edu.sg/registration/#/> Login or scan QRcode and search for course code **78081**