



COURSE OVERVIEW ME0705

Elevator Maintenance, Inspection & Testing

Course Title

Elevator Maintenance, Inspection & Testing

Course Date/Venue

September 20-24, 2026/TBA Meeting Room,
Voco Dubai, an IHG Hotel, Sheikh Zayed Road,
Dubai, UAE

Course Reference

ME0705

Course Duration/Credits

Five days/3.0 CEUs/30 PDHs



Course Description



This practical and highly-interactive course includes real-life case studies and exercises where participants will be engaged in a series of interactive small groups and class workshops.

An elevator is an extremely complex system with hundreds of parts that must be maintained. One function of maintenance is ensuring continued operation by preventing excessive wear and breakdown. In systems as complex as modern elevator systems, a more important aspect of maintenance is to ensure that the equipment continues to perform as it was originally designed. This can be accomplished only by qualified, trained technicians and engineers using the correct equipment and tools.



This course is designed to cover both maintenance and inspection activities that are normally contracted to an elevator maintenance or inspection provider and those that are normally performed by the owner/manager. Participants will learn about the safety code requirements for maintenance records including maintenance control programs and how to inspect for and identify common maintenance deficiencies.



The course material includes sample maintenance control programs for electric and hydraulic elevators, as well as escalators and moving walks that identify all safety code requirements for maintenance activities. The material also includes blank forms for performance evaluation, emergency operation monthly checks and escalator/moving walk start-up.

Safety is stressed throughout the course, with emphasis on identification and use of elevator safety features that are available for maintenance and inspection personnel. Participants are given exercises and testing after each subject to gain feedback on their understanding to ensure that they comprehend the subjects.

This course is beneficial to all elevator personnel. It focuses on elevator maintenance, inspection and tests techniques and is beneficial for new elevator inspectors and maintenance staff as well as the more experienced inspectors and maintenance staff that are interested in improving their inspection and maintenance skills and understanding of code requirements.

Course Objectives/Outcomes & Benefits for the Participants

Upon the successful completion of this course, each participant will be able to:-

- Apply systematic methodology and techniques in elevator maintenance, inspection and testing
- Discuss the elevator applicable codes and standards that includes the safety codes for elevators and escalators
- Maintain, inspect and test the elevator safely
- Conduct electric elevator tests and hydraulic elevator tests
- Distinguish the acceptance and periodic tests of electric elevators
- Determine the hydraulic hoistway and pit including the relief valve setting, flexible pressure hose, pressure switch, speed-rated speed up and operating speed down, etc
- Discuss the prohibition of governor rope lubrication and rope retirement criteria
- Evaluate the code data plate, and identify the personnel hoists not covered by ASME A17.1
- Employ elevator preventive maintenance by following the minimum requirements, guidelines and periodic test charts for electric and hydraulic elevators

Exclusive Smart Training Kit - H-STK®



*Participants of this course will receive the exclusive “Haward Smart Training Kit” (H-STK®). The H-STK® consists of a comprehensive set of technical content which includes **electronic version** of the course materials conveniently saved in a **Tablet PC**.*

Who Should Attend

This course is intended for individuals who evaluate or administer elevator maintenance and inspection programs, elevator mechanics, managers and supervisors of elevator maintenance, architects and elevator engineers. It is essential for building owners/managers or persons that administer elevator maintenance and inspection contracts to assure that they are getting full return on maintenance expenditure and maximum safety.

Course Certificate(s)

Internationally recognized certificates will be issued to all participants of the course who completed a minimum of 80% of the total tuition hours

Certificate Accreditations

Haward's certificates are accredited by the following international accreditation organizations:

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British Accreditation Council (BAC)

Haward Technology is accredited by the **British Accreditation Council** for **Independent Further and Higher Education** as an **International Centre**. Haward's certificates are internationally recognized and accredited by the British Accreditation Council (BAC). BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.

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The International Accreditors for Continuing Education and Training (IACET - USA)

Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 2018-1 Standard** which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the **ANSI/IACET 2018-1 Standard**.

Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking **Continuing Education Units** (CEUs) in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

Haward Technology Middle East will award **3.0 CEUs** (Continuing Education Units) or **30 PDHs** (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant's involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant's CEU and PDH Transcript of Records upon request.

Accommodation

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.

Course Instructor(s)

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:



Dr. Tony Dimitry, PhD, MSc, BSc, is a **Senior Mechanical & Maintenance Engineer** with over **30 years** of industrial experience within the **Petroleum, Oil & Gas, Petrochemical, Nuclear & Power** industries. His expertise covers Revising **Elevator Maintenance**, Inspection & Testing, **Elevator Systems**, **Acceptance & Periodic Tests of Electric Elevators**, **Elevator Preventative Maintenance**, **Engineering Drawings**, **Engineering Drawings & Diagrams**, **AutoCAD & GIS Support**, **Retailed Engineering Drawings**, **Codes &**

Standards, **Mechanical Diagrams Interpretation**, **Reading Engineering Drawings**, **Process & Project Drawings**, **Engineering Drawings Interpretation**, **Piping Layouts & Isometrics**, **P&ID Reading & Interpretation**, **Glass Reinforced Epoxy (GRE)**, **Glass Reinforced Pipes (GRP)**, **Glass Reinforced Vent (GRV)**, **Mechanical Pipe Fittings**, **Flange Joint Assembly**, **Adhesive Bond Lamination**, **Butt Jointing**, **Joint & Spool Production**, **Isometric Drawings**, **Flange Assembly Method**, **Fabrication & Jointing**, **Jointing & Spool Fabrication**, **Pipe Cuttings**, **Flange Bolt Tightening Sequence**, **Hydro Testing**, **Failure Analysis Methodologies**, **Machinery Root Cause Failure Analysis (RCFA)**, **Preventive Maintenance & Condition Monitoring**, **Reliability Centred Maintenance (RCM)**, **Risk Based Inspection (RBI)**, **Root Cause Analysis (RCA)**, **Planning & Managing Plant Turnaround**, **Scheduling Maintenance**, **Data Archive Maintenance**, **Master Milestone Schedule (MMS)**, **Piping & Mechanical Vibration Analysis**, **Preventive & Predictive Maintenance (PPM) Maintenance**, **Condition Based Monitoring (CBM)**, **Risk Based Assessment (RBA)**, **Planning & Preventive Maintenance**, **Maintenance Management (Preventive, Predictive, Breakdown)**, **Reliability Management**, **Rotating Equipment**, **Scheduling & Cost Control**, **Maximo Foundation**, **Maximo Managing Work**, **Asset Management Best Practices**, **Resource Management**, **Inventory Set-up & Management**, **Work Management**, **Automatic & Work Flows & Escalations**, **Vibration Analysis**, **Heat Exchanger**, **Siemens**, **Gas & Steam Turbine Maintenance**, **Pumps & Compressors**, **Turbo-Expanders**, **Fractional Columns**, **Boilers**, **Cryogenic Pumps for LNG**, **Electromechanical Maintenance**, **Machinery Alignment**, **Lubrication Technology**, **Bearing & Rotary Machine**, **Blower & Fan**, **Shaft Repair**, **Safety Relief Valves**, **Pipelines**, **Piping**, **Pressure Vessels**, **Process Equipment**, **Diesel Engine & Crane Maintenance**, **Tanks & Tank Farms**, **Pneumatic System**, **Static Equipment**, **FMEA**, **Corrosion**, **Metallurgy**, **Thermal and Electrical Modelling of Battery Problems**. He is also well-versed in various simulators such as **i-Learn Vibration**, **AutoCAD**, **Word Access**, **Aspen One**, **Fortran**, **VB**, **C ANSYS**, **ABAQUS**, **DYNA3D**, **Cesar**, **Caepipe**, **MS Project**, **Primavera**, **MS Excel**, **Maximo**, **Automation Studio** and **SAP**. Currently, he is the **Maintenance Manager** of the **PPC Incorporation** wherein he is responsible for the maintenance and upgrading of all **Power Station** components.

During his career life, Dr. Dimitry held a significant positions such as the **Operations Engineers**, **Technical Trainer**, **HSE Contracts Engineer**, **Boilers Section Engineer**, **Senior Engineer**, **Trainee Mechanical Engineer**, **Engineer**, **Turbines Section Head**, **Professor**, **Lecturer/Instructor** and **Teaching Assistant** from various multinational companies like **Chloride Silent Power Ltd.**, **Technical University of Crete**, **National Nuclear Corporation**, **UMIST Aliveri Power Station** and **HFO Fired Power Station**.

Dr. Dimitry has **PhD**, **Master** and **Bachelor** degrees in **Mechanical Engineering** from the **Victory University of Manchester** and the **University of Newcastle, UK** respectively. Further, he is a **Certified Instructor/Trainer**, a **Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management (ILM)** and an associate member of the **American Society of Mechanical Engineers (ASME)** and **Institution of Mechanical Engineers (IMechE)**. He has further delivered various trainings, seminars, courses, workshops and conferences internationally.

Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, State-of-the-Art Simulators, Drawings, Case Studies, Videos and Exercises. The courses include the following training methodologies as a percentage of the total tuition hours:-

- 30% Lectures
- 20% Practical Workshops & Work Presentations
- 30% Hands-on Practical Exercises & Case Studies
- 20% Simulators (Hardware & Software) & Videos

In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

Learning Design & Customization

This course can be customized to the exact requirements of clients. Haward Technology is so proud of our huge capabilities in tailoring our courses to the training needs of our valued clients.

Course Fee

US\$ 5,500 per Delegate. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Program

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the course for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Day 1: Sunday, 20th of September 2026

0730 – 0800	Registration & Coffee
0800 – 0815	Welcome & Introduction
0815 – 0830	PRE-TEST
0830 – 0930	Elevator Applicable Codes & Standards ASME A17.1/CSA B44 Safety Code for Elevators and Escalators • ASME A17.3 Safety Code for Existing Elevators and Escalators
0930 – 0945	Break
0945 – 1100	Elevator Applicable Codes & Standards (cont'd) The National Electrical Code • ASME A17.7-2007/CSA B44.7-07 Performance Based Safety Code for Elevators and Escalators
1100 – 1230	Elevator Maintenance Scope of Preventive Maintenance • Maintenance Personnel
1230 – 1245	Break
1245 – 1420	Elevator Maintenance (cont'd) Recordkeeping • Safety
1420 – 1430	Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow
1430	Lunch & End of Day One



Day 2: Monday, 21st of September 2026

0730 – 0900	Elevator Inspections General
0900 – 0915	Break
0915 – 1100	Elevator Inspections (cont'd) Areas of Inspection
1100 – 1230	Elevator Tests Testing
1230 – 1245	Break
1245 – 1420	Elevator Tests (cont'd) Test Intervals
1420 – 1430	Recap
1430	Lunch & End of Day Two

Day 3: Tuesday, 22nd of September 2026

0730 – 0930	Electric Elevator Tests Category 1 Tests-Electric Elevators • Category 5 Tests-Electric Elevators
0930 – 0945	Break
0945 – 1100	Hydraulic Elevator Tests Category 1 Tests-Hydraulic Elevators • Category 3 Tests-Hydraulic Elevators • Category 5 Tests-Hydraulic Elevators
1100 – 1215	Acceptance and Periodic Tests of Electric Elevators Car and Counterweight Governors • Car and Counterweight Safeties • Standby Power Operation • Car and Counterweight Oil Buffers • Brake
1215 – 1230	Break
1230 – 1420	Acceptance and Periodic Tests of Electric Elevators (cont'd) Terminal Stopping Devices • Static Controlled Elevators • Winding Drum Machine Slack Rope • Standby Power • Ascending Car and Unintended Motion
1420 – 1430	Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow
1430	Lunch & End of Day Three

Day 4: Wednesday, 23rd of September 2026

0730 – 0930	Hydraulic Hoistway and Pit Relief Valve Setting • Flexible Pressure Hose • Unexposed Cylinder and Piping • Pressure Switch
0930 – 0945	Break
0945 – 1100	Hydraulic Hoistway and Pit (cont'd) Operating Pressure Verification • Bottom Plunger Clearance • Speed-Rated Speed Up and Operating Speed Down
1100 – 1215	Prohibition of Governor Rope Lubrication
1215 – 1230	Break
1230 – 1420	Rope Retirement Criteria
1420 – 1430	Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow
1430	Lunch & End of Day Four

Day 5: Thursday, 24th of September 2026

0730 – 0930	Code Data Plate
0930 – 0945	Break
0945 – 1100	Personnel Hoists Not Covered by ASME A17.1
1100 – 1215	Elevator Preventative Maintenance Minimum Preventative Maintenance Requirements for Electric Traction Elevators • Minimum Preventative Maintenance Requirements for Hydraulic Elevators
1215 – 1230	Break
1230 – 1345	Elevator Preventative Maintenance (cont'd) Guidelines for Full Service Maintenance Agreement for Elevators • Electric Elevator Periodic Test Charts • Hydraulic Elevator Periodic Test Charts
1345 – 1400	Course Conclusion Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course
1400 – 1415	POST-TEST
1415 – 1430	Presentation of Course Certificates
1430	Lunch & End of Course

Practical Sessions

This practical and highly-interactive course includes real-life case studies and exercises:-



Course Coordinator

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