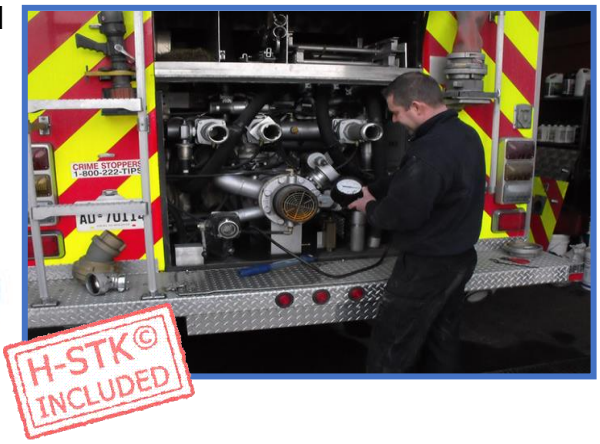
COURSE OVERVIEW ME0584
Certified Inspectors for Vehicle and Equipment

Course Title
Certified Inspectors for Vehicle and Equipment

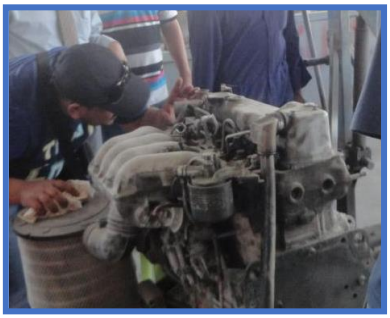


Course Date/Venue
April 06-10, 2025/Al Khobar Meeting Room, Hilton Garden Inn, Al Khobar, KSA

Course Reference
ME0584

Course Duration/Credits
Five days/3.0 CEUs/30 PDHs

Course Description



This practical and highly-interactive course includes practical sessions and demonstration for vehicle and equipment inspection. Theory learnt in the class will be applied using various types of vehicle equipment through hands-on practical sessions.

The course is designed to provide participants a detailed and up-to-date overview of vehicle and equipment inspection. It covers lamps, reflectors and electrical equipment; steering and suspension; and brake parking and break control that includes hand operated brake control valves, service brake control, anti-lock braking, electronic stability control systems, mechanical brake components, braking systems and additional braking devices.

At the completion of the course, participants will be able to apply systematic methods of calculating break performance; describe tyres, seat belts and supplementary restrain systems; determine body structure and general items including vehicle structure, seats and doors, registration plates; VIN details, load security, spare wheel, carrier, etc.

The course will also cover exhaust and fuel system; spark ignition and compression ignition; drivers view of the road; view to rear; wipers; washers; windscreen; structural integrity; and corrosion.

Course Objectives

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

- Get certified as a "*Certified Vehicle Inspector*"
- Discuss vehicle inspection basics as well as lamps, reflectors and electrical equipment covering front and rear position lamps, end outline marker lamps, registration plate lamps, stop lamp, rear fog lamps, etc.
- Identify steering and suspension comprising of steering control, steering system, power steering, front suspension and rear suspension
- Recognize break parking and break control including hand operated break control valves, service brake control, anti-lock braking, electronic stability control systems, mechanical brake components, etc.
- Employ systematic methods of calculating break performance
- Describe tyres, seat belts and supplementary restrain systems
- Determine body structure and general items including vehicle structure, seats and doors, registration plates and VIN details, load security, spare wheel, carrier, etc.
- Differentiate exhaust and fuel system as well as spark ignition and compression ignition
- Explain drivers view of the road, view to rear, wipers, washers, windscreen, structural integrity and corrosion

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 provides an overview of all significant aspects and considerations of vehicle and equipment for technical personnel of vehicle inspection centres that need to perform vehicle inspection as well as vehicle mechanics that need a basic understanding of the inspected items to base their repair and maintenance work on.

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.

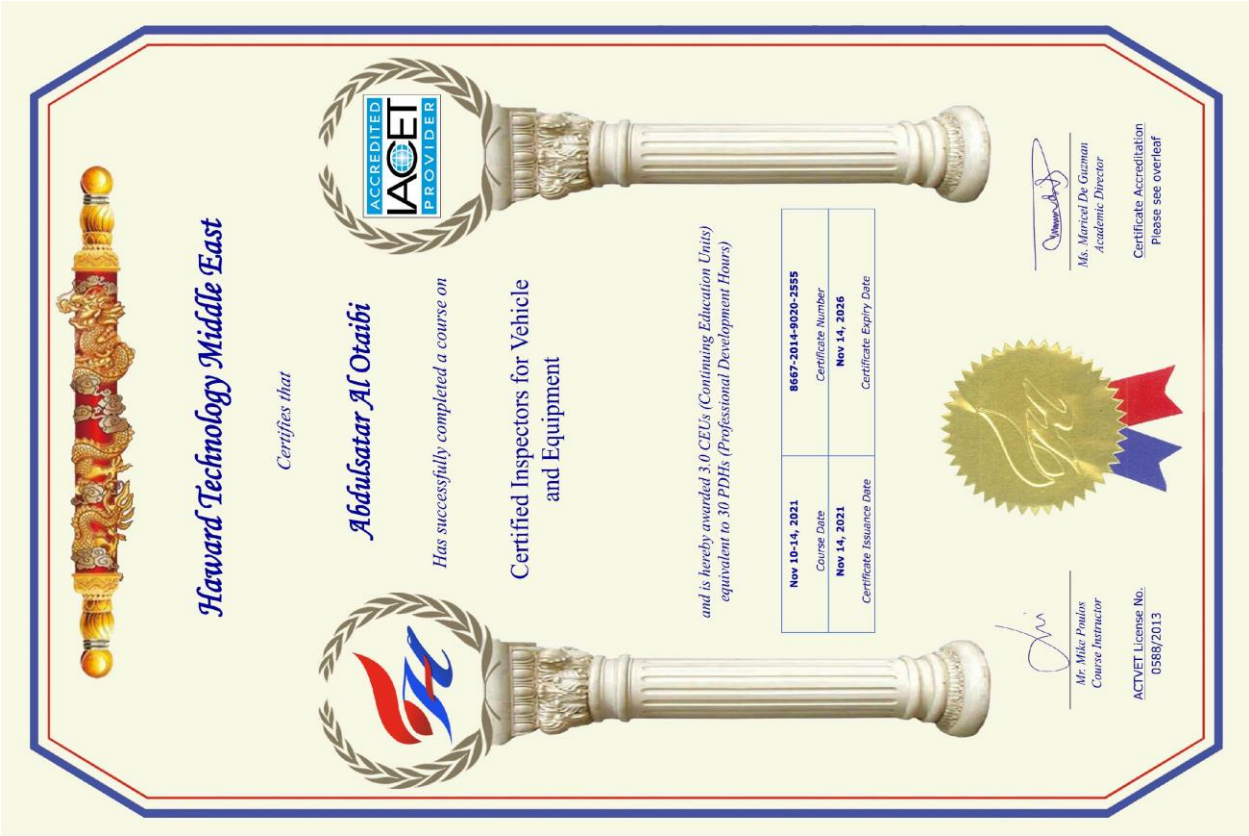
Course Certificate(s)

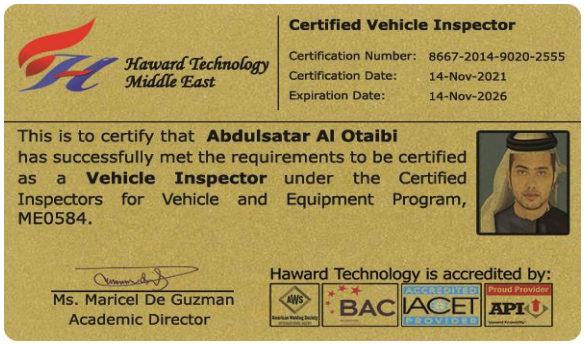
(1) Internationally recognized Competency Certificates and Plastic Wallet Cards will be issued to participants who completed a minimum of 80% of the total tuition hours and successfully passed the exam at the end of the course. Successful candidate will be certified as a "*Certified Vehicle Inspector*". Certificates are valid for 5 years.

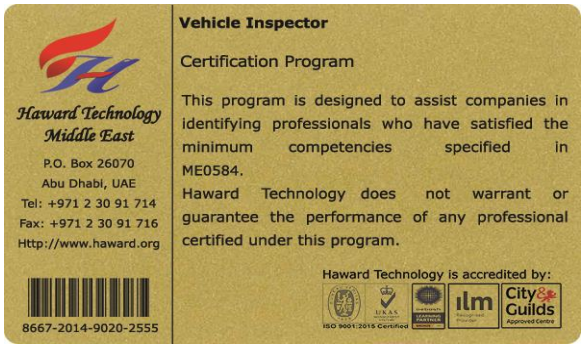
Recertification is FOC for a Lifetime.

Sample of Certificates

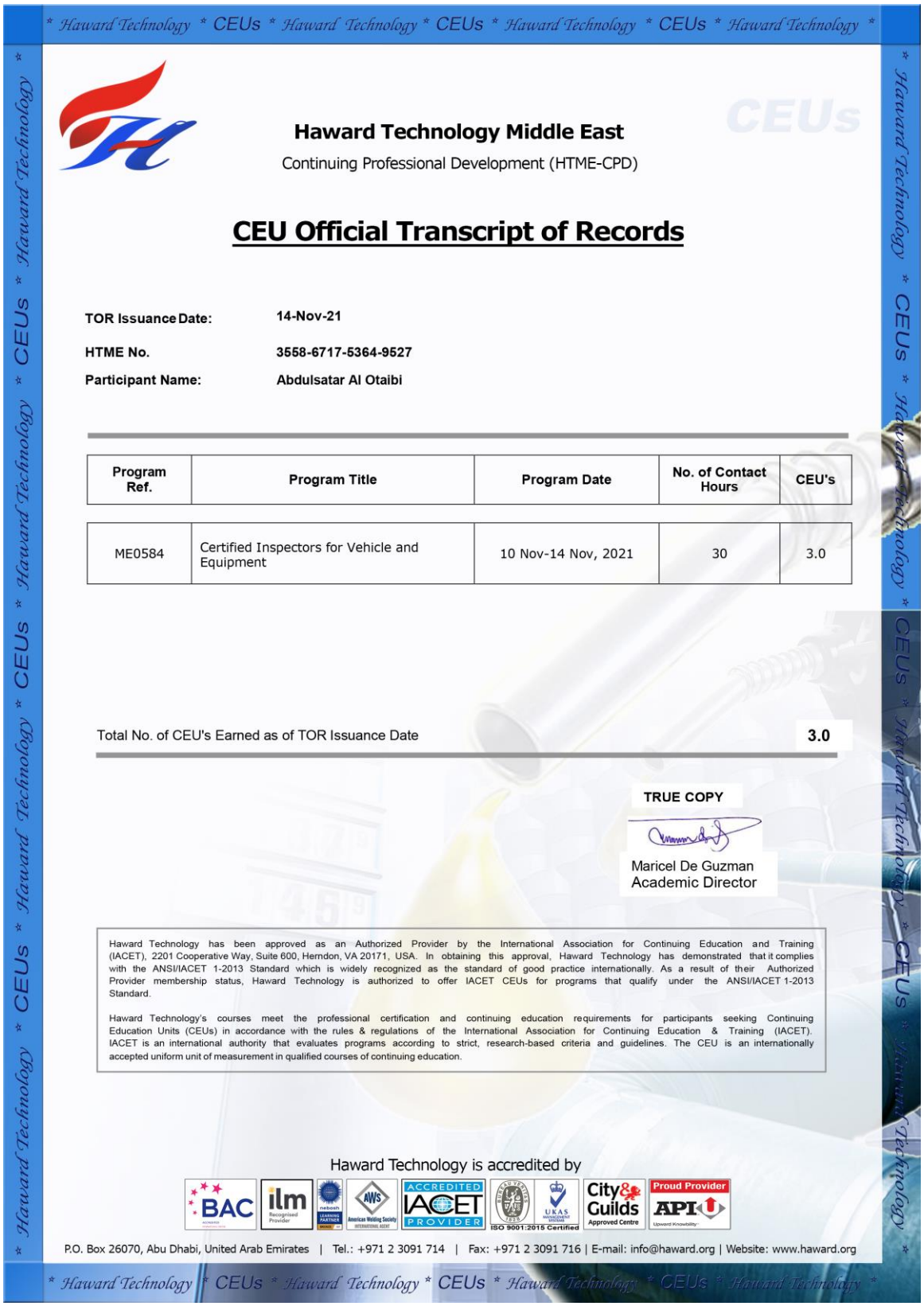
The following are samples of the certificates that will be awarded to course participants:-







(2) Official Transcript of Records will be provided to the successful delegates with the equivalent number of ANSI/IACET accredited Continuing Education Units (CEUs) earned during the course



Haward Technology Middle East

Continuing Professional Development (HTME-CPD)

CEU Official Transcript of Records

TOR Issuance Date: 14-Nov-21

HTME No. 3558-6717-5364-9527

Participant Name: Abdulsatar Al Otaibi

Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU's
ME0584	Certified Inspectors for Vehicle and Equipment	10 Nov-14 Nov, 2021	30	3.0

Total No. of CEU's Earned as of TOR Issuance Date **3.0**

TRUE COPY

Maricel De Guzman
Academic Director

Haward Technology has been approved as an Authorized Provider by the International Association for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this approval, Haward Technology has demonstrated that it complies with the ANSI/IACET 1-2013 Standard which is widely recognized as the standard of good practice internationally. As a result of their Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for programs that qualify under the ANSI/IACET 1-2013 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 Association 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 is accredited by

P.O. Box 26070, Abu Dhabi, United Arab Emirates | Tel.: +971 2 3091 714 | Fax: +971 2 3091 716 | E-mail: info@haward.org | Website: www.haward.org

Certificate Accreditations

Certificates are accredited by the following international accreditation organizations: -

- 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.

- British Accreditation Council (BAC)

  Haward Technology is accredited by the **British Accreditation Council** for **Independent Further and Higher Education** as an **International Centre**. 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.

Course Fee

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

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:

Mr. Manuel Dalas MSc, BSc, is a **Senior Mechanical & Maintenance Engineer** with over **20 years** of industrial experience in **Oil**, **Gas**, **Refinery**, **Petrochemical**, **Power** and **Nuclear** industries. His wide expertise includes **Material Cataloguing**, **Maintenance Planning & Scheduling**, Reliability Centered Maintenance (**RCM**), **Reliability Maintenance**, **Condition Based Maintenance & Condition Monitoring**, **Asset & Risk** Management, **Vibration Condition Monitoring & Diagnostics** of Machines, **Vibration & Predictive** Maintenance, Reliability Improvement & Vibration Analysis for Rotating Machinery, Effective Maintenance **Shutdown & Turnaround** Management, **Engineering Codes & Standards**, **Rotating Equipment** Maintenance, **Mechanical** Troubleshooting, **Static Mechanical Equipment** Maintenance, **Machinery** Failure Analysis, **Machinery Diagnostics & Root Cause Failure** Analysis, **Plant Reliability & Maintenance** Strategies, **Boiler** Operation & Water Treatment, **Pumps** Maintenance & Troubleshooting, **Fans**, **Blowers & Compressors**, **Process Control Valves**, Piping Systems & Process Equipment, **Gas Turbines & Compressors** Troubleshooting, Advanced **Valve** Technology, **Pressure Vessel** Design & Analysis, **Steam & Gas Turbine**, **High Pressure Boiler** Operation, **FRP Pipe** Maintenance & Repair, **Centrifugal & Positive Displacement Pump** Technology Troubleshooting & Maintenance, **Rotating Machinery** Best Practices, **PD Compressor & Gas Engine** Operation & Troubleshooting, **Hydraulic Tools & Fitting**, **Mass & Material Balance**, **Water Distribution & Pump Station**, **Tank Farm & Tank Termina**l Safety & Integrity Management, **Process Piping** Design, Construction & **Mechanical Integrity**, **Stack & Noise** Monitoring, **HVAC & Refrigeration** Systems, BPV Code, Section VIII, Division 2, **Facility Planning & Energy** Management, Hoist - Remote & Basic **Rigging & Slinging**, **Mobile Equipment** Operation & Inspection, **Heat Exchanger**, **Safety Relief Valve**, **PRV & POPRV/PORV**, **Bearing & Lubrication**, **Voith Coupling** Overhaul, **Pump & Valve** Technology, **Lubrication** Inspection, **Process Plant** Optimization, Rehabilitation, Revamping & Debottlenecking, Engineering Problem Solving and **Process Plant** Performance & Efficiency. Currently, he is the **Technical Consultant** of the **Association of Local Authorities of Greater Thessaloniki** where he is in charge of the mechanical engineering services for piping, pressure vessels fabrications and ironwork.

During his career life, Mr. Dalas has gained his practical and field experience through his various significant positions and dedication as the **Technical Manager**, **Project Engineer**, **Safety Engineer**, **Deputy Officer**, **Instructor**, **Construction Manager**, **Construction Engineer**, **Consultant Engineer** and **Mechanical Engineer** for numerous multi-billion companies including the **Biological Recycling Unit** and the **Department of Supplies** of **Greece**, **Alpha Bank Group**, **EMKE S.A**, **ASTE LLC** and **Polytechnic College of Evosmos**.

Mr. Dalas has a **Master** degree in **Energy System** from the **International Hellenic University, School of Science & Technology** and a **Bachelor** degree in **Mechanical Engineering** from the **Mechanical Engineering Technical University of Greece** along with a **Diploma** in **Management & Production Engineering** from the **Technical University of Crete**. Further, he is a **Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership and Management** (**ILM**), a **Certified Project Manager Professional** (**PMI-PMP**), a **Certified Instructor/Trainer**, a **Certified Energy Auditor** for **Buildings**, **Heating & Climate Systems**, a **Member** of the **Hellenic Valuation Institute** and the **Association of Greek Valuers** and a **Licensed Expert Valuer Consultant** of the **Ministry of Development and Competitiveness**. He has further delivered numerous trainings, courses, seminars, conferences and workshops internationally.

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, 06th of April 2025***

0730 – 0800	*Registration & Coffee*
0800 – 0815	*Welcome & Introduction*
0815 – 0830	***PRE-TEST***
0830 – 0930	***Vehicle Inspection Basics*** *Basic Terminology & Abbreviations ● Contribution of Vehicles Periodic Inspection to Road Safety, Economy & Service Life • Vehicles Categories ● Vehicles Inspection Types (Roadworthiness Inspections: Affect the Safety, and Reliability Vehicles Before Upcoming Scheduled Inspection- Covers All Items of Annual Test ● Maintenance Inspection: Visual and Gives Insights into Maintenance Standards and the General Vehicle Care ● Pre-Purchase Inspection: It Provides Information on Vehicle Condition Before Purchasing*
0930 – 0945	*Break*
0945 – 1200	***Vehicle Inspection Basics (cont'd)*** *End-of-Lease Inspection: This Provides an Objective Third-Party Report on the Condition of the Vehicle Before it is Re-Handled ● Due Diligence Inspection: It Examines the Condition of a Vehicle Fleet and Assesses its Financial Value ● Lifting Equipment Inspection: This is a Full Visual Examination in Addition to Roadworthiness or Maintenance Inspection and Focuses on Operation and Mechanics of Lifting Equipment) ● Major Issues for Vehicle Inspection (Roadworthiness, Structural Soundness, Underbody Integrity, Road Performance)*
1200 – 1215	*Break*
1215 – 1330	***Lamps, Reflectors & Electrical Equipment*** *Front & Rear Position Lamps ● End Outline Marker Lamps & Registration Plate Lamps ● Stop Lamp ● Rear Fog Lamps ● Direction Indicators & Hazard Warning Devices • Rear Reflectors & Audible Warning (Horn) ● Headlamps ● Electrical Warning & Battery*
1330- 1420	***Steering & Suspension*** *Steering Control ● Steering System ● Power Steering ● Suspension-General ● Front Suspension • Wheel Bearings & Driveshafts ● Rear Suspension & Wheel Bearings ● Shock Absorbers ● Suspension Type Diagrams*
1420 – 1430	***Recap***
1430	*Lunch & End of Day One*

Day 2: ***Monday, 07th of April 2025***

0730 – 0930	***Brakes Parking & Brake Control*** *Hand Operated Brake Control Valves ● Service Brake Control ● Anti-Lock Braking & Electronic Stability Control Systems*
0930 – 0945	*Break*
0945 – 1100	***Brakes Parking Brake Control (cont'd)*** *Mechanical Brake Components ● Braking Systems & Additional Braking Devices*
1100 – 1230	***Brake Performance*** *Method of Calculating Brake Performance*

1230 – 1245	*Break*
1245 – 1420	***Brake Performance (cont'd)*** *Examples of Manufactures Plates ● Brake Efficiency Tables*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Two*

Day 3: ***Tuesday, 08th of April 2025***

0730 – 0930	***Tyres*** *Roadwheels ● Tyre Size*
0930 – 0945	*Break*
0945 – 1100	***Tyres (cont'd)*** *Ply Rating & Load Index*
1100 – 1230	***Seat Belts & Supplementary Restraint Systems*** *Seat Belts Requirements ● Seat Belt Condition*
1230 – 1245	*Break*
1245 – 1420	***Seat Belts & Supplementary Restraint Systems (cont'd)*** *Seat Belt Installation Check ● Supplementary Restraint Systems*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Three*

Day 4: ***Wednesday, 09th of April 2025***

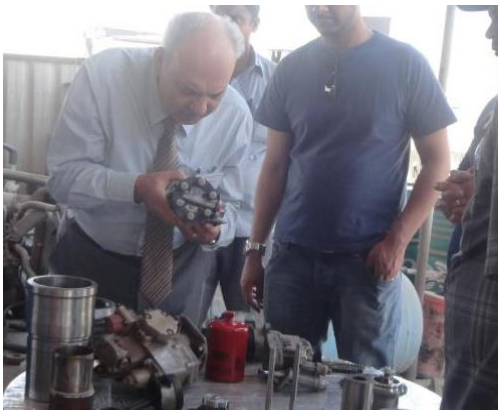
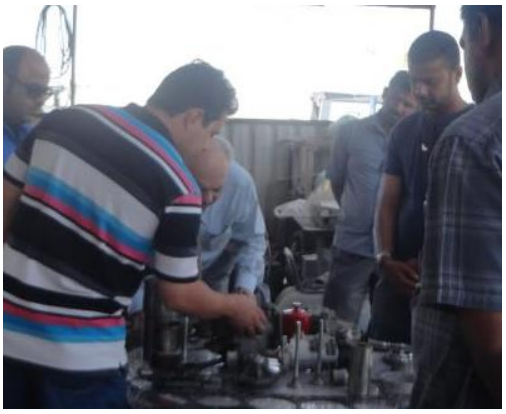
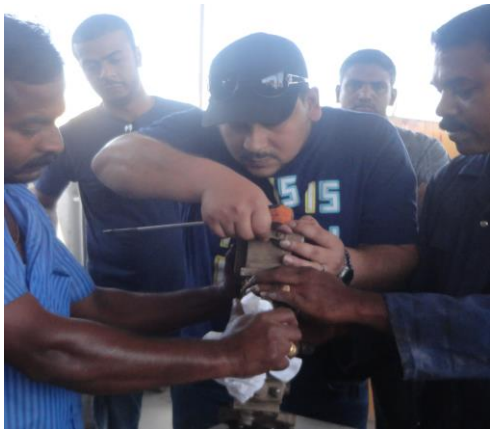
0730 – 0930	***Body Structure & General Items*** *Vehicle Structure ● Body & General Items ● Seats & Doors ● Registration Plates & VIN Details ● Load Security*
0930 – 0945	*Break*
0945 – 1100	***Body Structure & General Items (cont'd)*** *Spare Wheel & Carrier ● Speed Limiters ● Tow Bars ● Speedometers ● Driving Controls ● Glazing*
1100 – 1230	***Exhaust, Fuel & Emissions*** *Exhaust System ● Fuel System*
1230 – 1245	*Break*
1245 – 1420	***Exhaust, Fuel & Emissions (cont'd)*** *Exhaust Emissions-Spark Ignition ● Exhaust Emissions-Compression Ignition*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Four*

Day 5: ***Thursday, 10th of April 2025***

0730 – 0830	***Drivers View of the Road***
0830 – 0930	***View to Rear***
0930 – 0945	*Break*
0945 – 1100	***Wipers & Washers***
1100 – 1200	***Windscreen***
1200 – 1215	*Break*
1215 – 1300	***Structural Integrity & Corrosion***
1300 – 1315	***Course Conclusion***
1315 – 1415	***COMPETENCY EXAM***
1415 – 1430	*Presentation of Course Certificates*
1430	*Lunch & End of Course*

Practical Sessions/Site Visit

Site visit will be organized during the course for delegates to practice the theory learnt:-


Course Coordinator

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