# COURSE OVERVIEW ME0641
# Base Oil Section

**Course Title**
Base Oil Section

**Course Date/Venue**
Session 1: June 23-27, 2025/Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE
Session 2: December 07-11, 2025/Fujairah Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE


**Course Reference**
ME0641



**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.***

This course is designed to provide participants with a detailed and up-to-date overview of Base Oil and Finished Lubricants. It covers the fundamentals of lubrication and base oils; the lubrication principles, characteristics, manufacturing and crude impact on based oil quality; the additives role, lubricants and synthetic lubricants; the base oil and finished lubricant pricing; the marketing and operations and finished lube business outlook; and the base oil and finished lubes saturated versus unsaturated markets.

During this interactive course, participants will learn the oil analysis; the various lubricant performance test methods; the application for engine critical areas of lubrication; the compressor oils, hydraulics and gears lubrication and turbine lubrication; the services involved in lubrication and MSDS; the fundamentals of grease and product storage; the various types of bearing; and the insights on African market and PAO business.

## Course Objectives

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

- Apply and gain an in-depth knowledge on base oil and finished lubricants
- Discuss the fundamentals of lubrication and base oils
- Identify lubrication principles, characteristics, manufacturing, crude impact on based oil quality as well as the additives role
- Classify lubricants and describe synthetic lubricants
- Determine base oil and finished lubricant pricing including marketing and operations and finished lube business outlook
- Differentiate base oil and finished lubes saturated versus unsaturated markets
- Carryout oil analysis, use various lubricant performance test methods and identify the application for engine critical areas of lubrication
- Recognize compressor oils and hydraulics and differentiate gears lubrication and turbine lubrication
- Determine the services involved in lubrication and MSDS
- Explain the fundamentals of grease, illustrate product storage and handling and enumerate the various types of bearing
- Discuss insights on African market and PAO business

## 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 base oil and finished lubricants for managers, mechanical engineers, lubrication technical staff, machine operators and maintenance personnel.

## 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)**

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**

Certificates are accredited by the following international accreditation organizations: -

- 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.

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

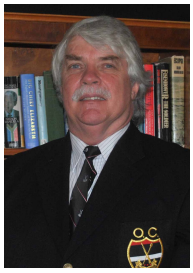
Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 2018-1 Standard** 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.

## 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. Den Bazley**, PE, BSc, is a **Senior Mechanical Maintenance Engineer** with over **25 years** of industrial experience in **Oil**, **Gas**, **Refinery**, **Petrochemical**, **Power** and **Utilities** industries. His wide expertise includes **Condition Based Monitoring**, **Piping System**, **Process Equipment**, **Mechanical Integrity**, **Maintenance Management**, **Reliability Management**, **Reliability Centred Maintenance** (**RCM**), Total Plant Maintenance (**TPM**) and Reliability-Availability-Maintainability (**RAM**), **Engineering Drawings, Codes & Standards**, **P&ID Reading, Interpretation & Developing**. His experience covers **Design**, **Construction** and **Maintenance** of **Storage Tank**, **Hydraulic Control Valves**, **rotating and static equipment** including **Safety Relief Valves**, **Boilers**, **Pressure Vessels**, **Tanks**, **Heat Exchangers**, **Bearings**, **Compressors**, **Pumps**, **Pipelines**, **Motors**, **Turbines**, **Gears**, **Lubrication Technology** and **Mechanical Seals**. Further, he has experience in Waste Water Treatment, **Water Treatment**, **Welding**, **NDT**, Vehicle Fleet and Budgeting & Cost Control. He is well-versed in **CMMS** and various International Standards including ISO 14001.

During his career life, Mr. Bazley has gained his practical and field experience through his various significant positions and dedication as the **Engineering Manager**, **Maintenance Manager**, **Construction Manager**, **Project Engineer**, **Mechanical Engineer**, **Mechanical Services Superintendent**, **Quality Coordinator** and **Planning Manager** for numerous international companies like **ESSO**, **FFS Refinery**, Dorbyl Heavy Engineering (VECOR), Vandenbergh Foods (Unilever), **Engen Petroleum**, Royle Trust and **Pepsi-Cola**.

Mr. Bazley is a **Registered Professional Engineer** and has a **Bachelor** degree in **Mechanical Engineering**. Further, he is a **Certified Engineer** (Government Certificate of Competency GCC Mechanical Pretoria), a **Certified Instructor/Trainer**, a **Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership and Management** (**ILM**), an active member of the **Institute of Mechanical Engineers** (**IMechE**) and has delivered numerous trainings, courses, seminars and workshops internationally.

## 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 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***

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| *0730 – 0800* | *Registration & Coffee* |
| *0800 – 0815* | *Welcome & Introduction* |
| *0815 – 0830* | ***PRE-TEST*** |
| *0830 – 0930* | ***Lubrication Fundamentals & Base Oils*** |
| *0930 – 0945* | *Break* |
| *0945 – 1100* | ***Lubrication Principles*** |
| *1100 – 1230* | ***Lubrication Characteristics*** |
| *1230 – 1245* | *Break* |
| *1245 - 1320* | ***Lubrication Manufacturing*** |
| *1320 - 1420* | ***Crude Impact on Based Oil Quality*** |
| *1420 – 1430* | ***Recap*** |
| *1430* | *Lunch & End of Day One* |

***Day 2***

| | |
|---|---|
| *0730 – 0900* | ***Additives Role*** |
| *0900 – 0915* | *Break* |
| *0915 – 1130* | ***Lubricants Classification*** |
| *1130 – 1230* | ***Synthetic Lubricants*** |
| *1230 – 1245* | *Break* |
| *1245 – 1320* | ***Base Oil & Finished Lubricant Pricing*** |
| *1320 – 1420* | ***Base Oil & Finished Lubricant Marketing & Operations***<br>*Shipping • Logistics* |
| *1420 – 1430* | ***Recap*** |
| *1430* | *Lunch & End of Day Two* |

***Day 3***

| | |
|---|---|
| *0730 – 0930* | ***Base Oil & Finished Lube Business Outlook*** |
| *0930 - 0945* | *Break* |
| *0945 – 1100* | ***Base Oil & Finished Lubes Saturated vs. Unsaturated Markets*** |
| *1100 – 1215* | ***Oil Analysis and Lubricant Performance Test Methods*** |
| *1215 – 1230* | *Break* |
| *1230 - 1320* | ***Application for Engine Critical Areas of Lubrication*** |
| *1320 - 1420* | ***Compressor Oils*** |
| *1420 – 1430* | ***Recap*** |
| *1430* | *Lunch & End of Day Three* |

***Day 4***

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|---|---|
| *0730 – 0930* | ***Gears Lubrication*** |
| *0930 - 0945* | *Break* |
| *0945 – 1100* | ***Hydraulics Training*** |
| *1100 – 1215* | ***Turbine Lubrication*** |
| *1215 – 1230* | *Break* |

| | |
|---|---|
| *1230 - 1320* | ***Services*** |
| *1320 – 1420* | ***Grease Fundamentals*** |
| *1420 – 1430* | ***Recap*** |
| *1430* | *Lunch & End of Day Four* |

***Day 5***

| | |
|---|---|
| *0730 – 0930* | ***Product Storage and Handling*** |
| *0930 - 0945* | *Break* |
| *0945 – 1100* | ***Bearing Types*** |
| *1100 – 1215* | ***Insights about African Market*** |
| *1215 – 1230* | *Break* |
| *1230 - 1345* | ***PAO Business*** |
| *1345 – 1400* | ***Course Conclusion*** |
| *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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