



# Certificate of Lubricant Competence 2021

DEvised  
AND DEVELOPED  
BY INDUSTRY  
LEADING  
EXPERTS

*A complete basic lubricant training programme devised and developed by leading industry experts.*

*Modules include:*

1. Exploration & Refining
2. Base Oil Types and Characteristics
3. Basic Tribology
4. Lubricant Additives
5. Industrial Lubricants
6. Automotive Lubricants
7. Greases
8. Metalworking Fluids
9. Health, Safety & Environment
10. Certification Session

**ATTEND 9 MODULES AND THE FINAL CERTIFICATION SESSION IS FREE**

**Lubrizol**



Registered  
Lubricant  
Professional



**Base Oils**



LUBRICANTS.  
TECHNOLOGY.  
PEOPLE.



For more details visit [www.ukla.org.uk/training](http://www.ukla.org.uk/training)

## COURSE SUMMARY

UKLA is offering the opportunity to enrol in a one-year course of up to 10 modules which will provide an excellent foundation in the lubricants industry.

Certification is achieved only on completion of the whole course: candidates attending all 9 taught modules over one or two consecutive years will be eligible to sit the final exam and achieve certification.

Each module has also been designed as a stand-alone course allowing delegates to attend specific modules in line with their exact requirements.

## THE COURSE CONTENT

Covering the fundamentals of exploration, manufacture and formulation of lubricants and greases together with their uses and final disposal of used lubrication products, including the Health, Safety and Environmental issues lubricants and greases create.

Each module looks at theory, application and market developments affecting each area of lubrication. Modules are led by an industry expert in that particular field. We are in the privileged and unique position to be able to offer you the best industry experts for each module keeping the course relevant and up to date with current legislation and market developments. Please see below for a detailed outline of each module.

## WHO SHOULD ATTEND?

This course is primarily aimed at those who want to gain a thorough grounding in lubricants and lubrication, as well as those who need to improve their skills and understanding by being brought up-to-speed on all the relevant information pertinent to the UK & European lubricants markets. It also provides a perspective on the global lubricant market.

This course would especially benefit newcomers and recently promoted lubricants personnel, or those who feel they would like to broaden their knowledge, e.g. technical and non-technical personnel, sales and marketing, customer support, legal and lubricants distribution staff.

## COURSE FEES

Fees are payable in advance and cover attendance and delegates' notes for each module. Please note, travel and accommodation costs are not included in the fees.

### UKLA Member Prices

Single Module           £315 excl. VAT  
10 Module Course    £2,835 excl. VAT

*(Attend 9 modules and the final certification session is **free**)*

## COURSE DETAILS

There is an end of unit test for each of the nine modules; candidates wishing to gain certification may also attend a free of charge final exam, so long as all nine modules have been completed in a period of two consecutive years or less.

The exams are held on an 'open book' exam basis, with delegates being evaluated on understanding rather than recall and memorisation.

## COURSE DELIVERY

UKLA has partnered with industry-leading companies who will help deliver key modules of the course providing delegates with the latest insights and developments in critical areas of lubrication principles and practice.

## THE CERTIFICATE

The pass mark for certification is 50%, with 'Distinction' set at 75% or above. Marks are weighted equally from attendance, individual module test marks and the final examination mark. Full briefing notes are provided and we can also arrange catch-up sessions to enable delegates to stay on track for certification.

## REGISTERED LUBRICANT PROFESSIONAL

On successful completion of the course, delegates working in UKLA member companies are eligible to apply for Registered Lubricant Professional status. This professional designation is awarded to those individuals who are committed to aspiring to the highest standards of lubricant practice and commits the individual to undertaking 35 hours of structured Continuing Professional Development each year to maintain their designation. For 2021 we are offering all delegates completing the full certification course one year's complimentary membership of the Registered Lubricant Professional programme.

For more information visit [www.ukla.org.uk/registered-lubricant-professional-cpd/](http://www.ukla.org.uk/registered-lubricant-professional-cpd/)



## THE TRAINERS

### **Ian Harris, Product Application Manager - Metalworking, Quaker Houghton**

After starting out as a Metallurgist, Ian began his 40 year association with the oil industry as an Analytical Chemist then progressing through various Midland's oil companies before settling at Houghton, then Houghton Vaughan. This journey involved analysis of re-refined oils and solvents, QC testing, formulation and development of products, improving production methods and plant design, H & S and CPL Regulations, BS 5750 Quality Improvements, plant and laboratory management, waste management and customer technical support. At Houghton, Ian managed Houghton's technical service laboratory before and after the transition to the current Trafford Park site before moving wholly into a technical customer support and training role for Houghton's staff and global customer base.

### **Tom Hyde, Technical Support Manager, Total UK, Lubricants Division**

Since graduating with a BSc in Chemistry in 1986, Tom has worked in a variety of roles and industries, starting with British Sugar, before moving onto water treatment and then lubricants. He has worked for Total UK for 19 years in lubricants and solvents and is currently heading up the lubricants technical team, providing technical expertise and training to clients and Total UK staff.

### **Alan Outhwaite, Global Business Development, Base Oils, Chevron**

Alan joined Chevron International Oil Company, in the UK in 1994 as a product engineer responsible for automotive and industrial lubricants, supporting Chevron's business in Russia, CIS and East Europe. Following Chevron's merger with Texaco, Alan moved to the commercial side of the business. In 2005 he joined Chevron's Global Base Oil team as Business Development Manager, responsible for Chevron's base oil strategy in Europe, a role he continues whilst supporting growth objectives in Asia.

### **Rod Pesch, CChem, MRSC.**

Rod has a long service history in the oil industry, amounting to over 50 years and still counting! Starting in 1965 with "Regent Oil" (forerunner of Texaco), Rod has worked in Technology, Marketing, Sales, Chemicals/Additives, OEM Liaison, Global Product Line Management and Global Marketing.

### **Steve Rushton, Product Application Manager - Aerospace Segment Specialist, Quaker Houghton**

Steve has accumulated over 35 years' experience in the application and formulation of all types of production and metalworking fluids, and is also widely experienced in the lubrication requirements of their associated production processes and machine tools. Steve has worked for a number of the UK's leading lubricant companies in the technical support field, and

has a wealth of experience in many of the world's major industrial markets.

### **Caroline Slinn, MChem, FUCHS Lubricants UK**

After graduating from York University with a degree in Chemistry, including a year in Europe (Münster, Germany), Caroline joined Polartech Ltd. as a technical service and later development chemist, focusing on metalworking fluids. After a period working for Batoyle Freedom Group, Caroline joined Afton Chemical as a Customer Technical Service Specialist within the metalworking team supporting the customers and sales teams, particularly in the Germany region. This role continued with Italmatch Chemicals for a period before joining the central technical team of FUCHS Lubricants UK at the end of 2019, supporting the industrial business. Caroline also sits on the UEIL HSE committee that meets three times a year and provides regular feedback to the UKLA European Policy Update meetings.

### **Abigail Waller, General Manager, UK & Ireland, Nynas Naphthenics Ltd.**

Following a degree at De Montfort Uni in Pharmaceutical & Cosmetic Science, Abigail started her career in Quality Control, moving to technical service & then sales in the coatings industry. After ten years as an account manager in chemical distribution she joined Nynas as sales executive for the UK & Ireland, selling specialty oils into diverse industries including, MWF, lubricants & greases as well as electrical oils, process oils & tyre oils. She is an internal auditor & the Quality Assurance coordinator for the UK. Three years ago she became General Manager for UK & I with overall P & L responsibility as well as still managing her own accounts both local, pan-European & global.

### **Dr Julian Wilkinson, Lead Chemist, O&G Technology, R S Clare**

Julian has worked in the field of lubrication since 2002 when he studied the oxidation of engine oils for his PhD in chemistry at York University. Since then, he has worked at Lubrizol in the Applications department and most recently at RS Clare for nearly 10 years working in grease product development and testing, and now leads the development of products for the oil and gas industry and providing technical support to the Sales team worldwide.

### **Dr. Ted Wright**

Following a period of research at Cambridge, Ted joined the Esso Research Centre and was responsible for electron microscopy and all aspects of elemental analysis. Moving into lubricants his positions within Esso included quality control, marketing and procurement. For a number of years he was on assignment as Technical Manager at Comma Oil. Ted is still very much involved in the lubricants industry especially with training and consults on problem solving. He also serves on the Technical Review Panel of the Verification of Lubricant Specifications (VLS).

## Module 1

25th February 2021

### EXPLORATION & REFINING

Covering the basic geology and formation of oil bearing strata, the geographical distribution of known oil reserves, the history of exploration, the formation of the Major Oil companies and a brief Industry history, refining and the progression of refinery technology from initial techniques through to current trends in modern technology.

*Presented by Abigail Waller, Nynas Naphthenics & Rod Pesch*

## Module 2

25th March 2021

### BASE OIL TYPES & CHARACTERISTICS

Concentrating on the way refining and crude oil origin defines the characteristics and properties of the resulting base oil and their subsequent best use. Covering areas such as Pour Point, Volatility, Oxidation Stability and the advantages and disadvantages of base oil's various properties to different types of blended lubricants.

*Presented by Alan Outhwaite, Chevron Base Oils & Rod Pesch*

**Module 3**

22nd April 2021

**BASIC TRIBOLOGY**

This course module is designed to give a basic understanding of concepts such as ElastoHydroDynamic Lubrication, Boundary Lubrication and Extreme pressure conditions. This module also covers Anti-Wear, Fretting Corrosion and Tool Life in the context of the later course elements.

*Presented by Dr. Ted Wright*

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**Module 4**

20th May 2021

**LUBRICANT ADDITIVES**

An explanation of the basic additives used in the various categories of lubricants, their chemistry at a simplistic level, their function and their performance in respect of the Tribology covered in the previous element. This should not only relate to additives used in Automotive and basic Industrial lubricants, but should draw parallels with specialist areas such as Grease and Metalworking Fluids.

*Presented by Rod Pesch featuring presenters from Lubrizol*

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**Module 5**

17th June 2021

**INDUSTRIAL LUBRICANTS**

A comprehensive look at Hydraulic and Circulatory, Gear Oils, Open Gears, Slideway Oils etc. including particularly the importance of viscosity, and additive selection and relating strongly to both the Tribology and Additive elements. Basic guidance on selection of the correct lubricant and the importance of the Lubrication Survey and Rationalisation are included.

*Presented by Tom Hyde, Total Lubricants UK*

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**Module 6**

15th July 2021

**AUTOMOTIVE LUBRICANTS**

An enormous topic covering not only engine oils for both gasoline and diesel engines but also transmission and hydraulic applications. This session will highlight the application of the different additive chemistries, relating both types and treat rates to levels of performance and specifications. The history of specifications up to and including the latest ACEA performance levels will be covered.

*Presented by Dr. Ted Wright*

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**Module 7**

23rd September 2021

**GREASES**

A science in itself, the use of grease, its different manufacturing considerations, additive types and the basic terminologies of Consistency, Penetration, Drop Point etc. are covered.

*Presented by Dr. Julian Wilkinson, R S Clare & Rod Pesch*

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**Module 8**

21st October 2021

**METALWORKING FLUIDS**

Metalworking Fluids have become an increasingly important part of the product portfolio of most lubricant companies. This element explores the basic differences in chemistry and application between neat and watermix fluids, explains emulsions and emulsifiers at a simplistic level, covers the additive technology and different tribological implications when related to the previous modules. It provides a thumbnail sketch of the industries, which form the potential customer base.

*Presented by Ian Harris & Steve Rushton, Quaker Houghton*

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**Module 9**

18th November 2021

**HEALTH, SAFETY & ENVIRONMENTAL**

This module covers the evolution of the Health and Safety of ingredients, risk assessment and a hands-on workshop to practice the technique. Risks from heavy metals, such as lead, together with the associated risks of using certain chemical components in formulations, such as sodium nitrite etc. in various categories of lubricants are addressed. It will also cover other issues such as biocides, middle order metals and discussing environmental legislation and trends. During this session other aspects are also covered relating to biodegradable lubricants, vegetable and ester basestocks and fluids used in the environment.

*Presented by Caroline Slinn, Fuchs Lubricants UK & Rod Pesch*

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**Module 10**

2nd December 2021

**CERTIFICATION SESSION**

The final module comprises a one and half-hour comprehensive examination, covering all the work covered in each module. The day concludes with a formal presentation to students of the UKLA Certificate of Lubricant Competence. Two levels of pass are provided, 'Pass' and 'Distinction'.

# Certificate of Lubricant Competence 2021

**Application Form**

Name(s) of Delegate(s):

(Please complete using Block letters)

Forename

Surname

1

2

3

Company:

Address:

Country:

Post Code:

Telephone:

Fax:

Contact E-Mail:

## PAYMENT

Module	UKLA/UEIL Member Price	Non Member Price	Please Tick
1. Exploration & Refining	£315 + VAT	£405 + VAT	
2. Base Oil Types & Characteristics	£315 + VAT	£405 + VAT	
3. Basic Tribology	£315 + VAT	£405 + VAT	
4. Lubricant Additives	£315 + VAT	£405 + VAT	
5. Industrial Lubricants	£315 + VAT	£405 + VAT	
6. Automotive Additives	£315 + VAT	£405 + VAT	
7. Greases	£315 + VAT	£405 + VAT	
8. Metalworking	£315 + VAT	£405 + VAT	
9. Health, Safety & Environment	£315 + VAT	£405 + VAT	
10. Ten Module Certification Course	£2,835 + VAT	£3,645 + VAT	

**Pay for nine modules and the Certificate Session is free**

Please send a VAT invoice

My Purchase Order No is: \_\_\_\_\_

*Please note payment in advance is required. Bookings will only be confirmed upon receipt of monies. Unconfirmed bookings will lose their priority if the course is over-subscribed. In the event of a delegate's withdrawal from the course, named substitutes are acceptable, but in the case of the certification course, certification may be jeopardised.*

*This booking is subject to our terms and conditions, and data protection policy. Please see the UKLA website for more details.*

For more details visit [www.ukla.org.uk/training](http://www.ukla.org.uk/training)

# Introduction to Lubricants

*A one day foundation course on lubricants, tribology and the lubricant sector.*

If you are looking for an intensive, certificated course that will give you a complete overview of the lubricant sector in a single day, then Introduction to Lubricants is for you. Whether you are already working in the industry or new to the sector, this condensed course will provide you with the fundamentals of lubricants, lubrication and tribology.

## Learning Outcomes

- Learn about the origins of Lubricants including refining and exploration.
- Understand the different types of Base Oils from Group I to Group V.
- Assess different types of additives and their role in lubrication.
- Explain the different Viscosity & Viscosity Classifications of lubricants.
- Understand Automotive Lubricant Classifications including ACEA and API.
- Learn about lubrication fundamentals including Tribology and Wear Mechanisms.
- Discover Who's Who in the Lubricants Industry.
- Understand the role of Government Intervention in the industry.
- Explain the financial landscape impacting upon the sector.

**Who should attend?** Individuals looking to improve their knowledge of the core principles of lubricants and lubrication in a condensed one-day certificated course would benefit from this course. Sales engineers, assistants, administrators and those in customer-facing or business support roles including sales, marketing, IT, finance and HR as well as those new to industry or returning after a career-break would also benefit from attendance.

**Cost:** UKLA members £315 plus VAT, Non-members £405 plus VAT, including certification.

**Trainer:** Your trainer will be Rod Pesch CChem MRSC. With over 50 years experience in the Oil Industry few people can be as well placed to lead this industry introduction.

This is also available as an In-Company course, please enquire for details.

On completion candidates can progress to the Certificate of Lubricant Competence Course.

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# Executive Industry Briefing 2021

*A two day residential course giving senior industry managers an overview of the fundamental areas of the Lubricants industry including exploration, refining, manufacture and marketing.*

## Day one will cover topics such as:

- Crude Oil, Exploration & Refining
- Lubrication Fundamentals, Tribology & Wear Mechanisms
- Base Oil Types & Characteristics
- Additive Technology
- Power Generation & Marine
- Automotive

## Day two:

- Off-Highway & Mining Equipment
- Industrial Lubricants
- Cement Industry
- Railway Lubricants
- Greases
- Metalworking Fluids
- Used Oil Analysis
- Oil Industry Glossary of Terms
- Oil Industry Abbreviations

**Who Should Attend?** Senior managers working in leadership roles within the Lubricants Industry, as well as those who need to be brought up-to-speed on all the relevant information pertinent to the UK & European lubricants markets. It is particularly pertinent for those working in non technical areas of the industry, such as legal, marketing, HR and finance.

**Cost:** The cost for UKLA members will be £625 (excl VAT) and for non members £825 (excl VAT). This fee includes all course materials, meals and accommodation for the first night.

**Trainer:** The trainer will be Rod Pesch CChem MRSC. With over 50 years experience in the Oil Industry few people can be as well placed to lead this executive overview of the sector.