



Society of Tribologists
and Lubrication Engineers

Lubrication Certification Requirements for STLE Certifications including:

- CLS
- OMA



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STLE



The Society of Tribologists and Lubrication Engineers (STLE) is the premier technical society serving the needs of more than 13,000 individuals and 250 companies and organizations that comprise the tribology and lubrication engineering business sector. STLE members are experts who research, develop and market the methods and products that make industry more successful and that enhance the well-being of people worldwide. Our members are employed by the world's leading corporations and academic institutions and by governmental agencies dealing with science and technology. STLE supports these distinguished men and women with a variety of professional education and certification programs.

Lubrication Engineering relates to the reduction of friction and wear between relatively moving parts. The term **tribology** describes the study of interacting moving surfaces. Tribology encompasses aspects of physics, chemistry, applied mathematics, metallurgy, material science, mechanical engineering, chemical engineering and applied mechanics.

Studies estimate that as much as one-third of all usable, device-produced energy is lost to friction and wear. This costs industry and consumers billions each year. In addition to energy waste, friction and wear greatly affect product reliability, maintainability, safety, life and environmental factors.



Lubrication Certification Requirements (STLE)

STLE– CLS

CLS (Certified Lubrication Specialist)

A Lubrication Specialist is an individual who might be designated a "Lubrication Engineer" by his/her employer. However, it is not limited to this designation, as individuals from varied backgrounds, including sales and management, opt to become CLS certified to increase their credibility/standards.

A Lubrication Specialist's Core Responsibilities

- Evaluates and selects lubricants to use and their purchases.
- Conducts lube surveys.
- Trains lubricators and assembles work list.
- Develops quality assurance and used lubricant analysis programs.
- Troubleshoots and problem solves lubrication issues.
- Maintains records of all application, as well as waste collection or disposal.

Requirements for Taking the CLS Exam

- Three years of experience working in the field of lubrication

Becoming CLS Certified

CLS certification is obtained by scoring 70 percent or higher on the designated exam that standardizes the body of knowledge for a Certified Lubrication Specialist. Certification is valid for three years, after which individuals are required to recertify to maintain their CLS status.



Body of Knowledge CLS

Exam Topics

- Bearings
- Fluid Conditioning
- Fluid Power
- Gears
- Lubricant Analysis
- Lubricant Manufacturing
- Lubrication Fundamentals
- Lubrication Programs
- Metalworking
- Monitoring and Reducing Consumption of Lubricants
- Pneumatics
- Problem Solving
- Seals
- Solvents and Cleaners
- Storage, Handling and Application of Lubricants
- Transportation Lubricants



Lubrication Certification Requirements (STLE)

STLE– OMA I

OMA I (Certified Oil Monitoring Analyst)

Predictive maintenance professionals who oversee the oil analysis program for a shop/plant would be suited for OMA I certification, while professionals working at the supervisory level are more suited for OMA II certification. OMA I is recommended for mechanics, engineers, operators, tradesmen, chemical managers or on-site lab personnel.

Core Responsibilities

- Responsible for oil sampling.
- Reviews oil analysis reports and performs the correct tests.
- Maintains overall care of equipment and maintenance actions.

Requirements for Taking the OMA Exam

- 16 hours of training in oil analysis-related courses, which may include company training programs.
- One year of experience utilizing oil analysis in the field of lubrication.

Becoming OMA I Certified

OMA I certification is obtained by scoring 70 percent or higher on the designated exam that standardizes the body of knowledge for an Oil Monitoring Analyst. Certification is valid for three years, after which individuals are required to recertify to maintain their OMA I status.



Body of Knowledge OMA I

Exam Topics

- Sampling
- Application/Test Method
- Data Interpretation
- Troubleshooting
- Lubrication Fundamentals

