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Course objectives

To identify and describe friction theories, wear mechanisms, and lubrication modes.

- To illustrate the types and properties of lubricants and different types of lubricating systems.
- To apply the basic principles of friction, wear, and lubrication to solve practical problems.

Training course duration:

Five Days

Timing:

8 a.m. - 2 p.m. Daily

Course outline :

Day one topics:

- Identify and describe friction theories
- Identify and describe wear mechanisms
- Overview of the lubrication modes

Day two topics:

Identify types and properties of lubricants used in machinery

- Design and/or select lubricating systems
- Learn about new materials in lubricants and lubricating systems



ME0019- Basics of Tribology and Lubrication

Day three topics:

Overview of the different types of bearings

- Design, analyze, and/or select Rolling-contact bearings
- Design, analyze, and/or select Journal bearing and lubrication

Day Four topics:

Experimental study of lubricant properties

- Experimental study of friction and lubrication
- Experimental study of wear analysis

Day Five topics:

Failure of machine components due to excessive wear and/or improper lubrication

- Case studies of mechanical failures
- Discussion and closing remarks

Instructor:

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