

## **COURSE DESCRIPTION**

Today's more sophisticated vehicles and machines demand more advanced lubricants.

To do the job, special additive packages are combined with base oils to give lubricants the unique properties necessary to protect and operate equipment efficiently.

The first chapter of this three chapter program will give an understanding of what friction is, how friction damages equipment and how lubrication controls friction and reduces the damage it causes.

The second chapter is about the lubricant additives that improve oil's performance, and how they solve specific lubrication problems.

The third chapter discusses the organizations that create and monitor lubrication standards, and the importance of selecting the right lubricant for each application.

## **Lubrication Fundamentals Course**

### **Chapter 1: Friction and Lubrication**

Coefficient of friction

Frictional damage

Different lubrication regimes

Lubricants under extreme operating conditions

### **Chapter 2: Lubricant Formulation**

Lubricant formulation

### **Chapter 3: Lubricant Standards and Selection**

Selecting the lubricant

Gasoline and diesel engine oils

Gear lubricants

Automatic transmission fluids

Industrial lubricants