

Training of maintenance personnel who are involved in lubrication is vital to a plant whose equipment depends on proper lubrication for optimum performance and minimum downtime.

Nelson Oil offers lubrication training seminars specifically tailored to meet the need of our individual customers. Training seminars are usually held on the customer's premises and are available on request.

Initial seminar training sessions include a broad band of topics related to lubrication principals. Subjects which are covered include:

- Basic principals of tribology friction, lubrication and wear
- Techniques of proper lubrication-  
The right lubricant, The right place, The right amount, The right time.
- Lubricant characteristics
- Additive packages
- Mineral based oils, types and characteristics
- Synthetic lubricants, types and applications
- Greases, types, application and compatibility
- Hydraulic fluids, types and applications
- Lubrication of open gears, gearboxes, chains, bearings and slideways
- Lubricant application methods
- Product specifications, specific to the lubricants which will be used at Your Site.
- Oil sampling programs, interpretation of results, ISO cleanliness specifications

Additional classes can be held to meet any special needs such as afternoon or evening classes.

**Course:** Fundamentals of Lubrication

**Location:** Customer site, training or conference room

**Required Facilities:** Conference or Classroom to accommodate 10 people

**Equipment:** Power Point Projector or Television with Video input.

**Text:** "Fundamentals of Lubrication", "Hydraulic Fluids Maintenance", (all materials supplied by Nelson Oil)

**Objectives:** On completion of this course attendees will:

- 1.** Be knowledgeable of all lubricants used at your site with the ability to discuss specific applications and basic specifications for each product.
- 2.** Be familiar with the basic principles of Tribology including friction, wear and lubrication.
- 3.** Be familiar with the basic properties of lubricants including: viscosity, viscosity index, flash point and pour point.
- 4.** Have the ability to interpret lubrication specifications as given in plant equipment manuals and on lubrication product data sheets.
- 5.** Knowledgeable of problems that can be associated with product mixing and compatibility of fluids and greases used as lubricants used at Ford Norfolk.
- 6.** Have the ability to interpret oil analysis lab reports including knowledge of ISO cleanliness codes of hydraulic fluids.