



SCHEDULED DATES

**May 4, 2009
June 22, 2009
August 17, 2009**

For more information or to register for a course, contact your Local Technical Training Committee (LTTC) member.

Infrared and Ultrasonic Skills (IUT100)

Course Description:

This course integrates Predictive Maintenance methods used for:

- Extending bearing life
- Using Airborne Ultrasound to predict mechanical failure
- Using Infrared Thermography to locate and diagnose heat problems throughout the plant

Learning Outcome:

The successful completion of this course will enable the participant to proficiently perform Predictive Maintenance techniques through:

- Non-destructive testing
- Industrial Bearing Predictive Maintenance
 - Causes & countermeasures of bearing failures
 - Bearing Tolerances, Loads and Fit
 - Proper Installation and Lubrication
- Ultrasonic Inspection
- Infrared Thermography

Major Topics Covered:

- Predictive Maintenance
- Emissivity
- Route Based Inspection
- Steam Valves
- Data Processing & Analysis
- Bearing Life Improvement
- Safety
- Infrared & Ultrasonic Inspection
- Equipment Setup & Operation
- Sound Waves, Frequency, Amplitude
- Troubleshooting Premature Bearing Failures

Class Size: 8

Course Duration: 40 HOURS