



# -Day

# How to Build a Precision Lubrication Program

*Here's what you'll learn in this* **Interactive Seminar**

## **I. Setting the Stage: The Importance of a Comprehensive Reliability Strategy**

- Globalization of capitalism and its influence on manufacturing
- Options for becoming a manufacturing leader in a hyper-competitive world
- Cost-cutting: Its limits and values

## **II. Machine Reliability and the Importance of Precision Lubrication**

- Review of four dominant machine maintenance strategies
- The role of lubrication in the dominant machine maintenance strategies
- Contrasting "Precision Lubrication" vs. "Best Practices"
- Precision Lubrication and Condition Based Maintenance
- The role of Precision Lubrication in improving competitiveness
- Blending "Precision Lubrication" with existing maintenance strategies

## **III. Creating a Structure for Reliability Centered Lubrication Management**

- Machine criticality assessment
- Lubrication failure modes, effects and criticality analysis
- Benchmarking and gap analysis
- Strategic plan development

## **IV. Lubricant Sourcing**

- Product performance evaluation
- Product consolidation
- Vendor evaluation
- Balanced decision process

## **V. Lubricant Products and Tools: Storage, Staging and Handling**

- Locating warehouse stores
- Locating open stores
- Bulk lubricants storage and staging
- Packaged goods storage and staging
- Lubricant handling tools
- Assuring quality at delivery
- Pre-cleaning new lubricants
- Storage safety and health considerations

## **VI. Equipment Lubrication Evaluation Process**

- Organizing the equipment assessment process
- Lubrication survey - machine evaluation criteria

## **VII. Lubricant Selection**

- The science behind machine lubrication
- Oil selection considerations
- Grease selection considerations
- Food processing machines: product considerations
- Standardizing lubricant selections: machines, product and practices

## **VIII. Lubricant Application & Management**

- Application of Oils and Greases
- Standardizing Lubricant Application Practices
- Standard relubrication practices: fill, top-up, drain, flush
- Workshop Activity

## **IX. Lubricant Analysis: Optimizing Lubrication Practices and Machine Reliability**

- The key principles and objectives for oil analysis
- Reliability centered test slate selection
- Reliability centered alarm selection
- Efficient and effective sump sample port development
- Efficient and effective sump sample intervals
- Using oil analysis data to improve machine condition & reliability

## **X. Managing In-Use Lubricants: Sump Condition Control**

- The causes and effects of lubricant contamination
- Limiting contaminants: systematic control practices
- Contamination control for grease sumps
- Leakage and waste oil management
- In-place lubricant restoration and reconditioning

## **XI. Lubrication Program Management Tools**

- Oil analysis data management tools
- Lubrication activity and route scheduling tools
- Machine tagging and work tracking
- Differentiating task types: machine running vs. machine idle
- Outage activity management

## **XII. Precision Lubrication Management: Program Goals and Objectives**

- Machine reliability centered goals and objectives
- Relubrication process goals and objectives
- Program evaluation and project assessment
- Lubricant condition control goals and objectives
- Lubricant health goals and objectives
- Knowledge development goals and objectives

## **XIII. Developing Lubrication Practices, Standardization and Documentation**

- Understanding the organization's position on documentation
- Procedure based maintenance
- Documentation for long term success



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# 4-Day

# How to Build a Precision Lubrication Program

## Ways to Register

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### SEMINAR DATES AND LOCATIONS

**June 21-24, 2010 - Franklin, TN (Nashville)**

**Marriott** – 700 Cool Springs Boulevard  
615.261.6100

**Hyatt Place** – 650 Bakers Bridge Avenue  
615.771.8900

**Hampton Inn** – 7141 S. Springs Drive  
615.771.7225

**Aloft Hotels** – 7109 S. Springs Drive  
615.435.8700

All reservations should be made on an individual basis under the **Precision Machine Lubrication group** name for the discounted rate. All reservations must be guaranteed and accompanied by a first night room deposit or guaranteed with a major credit card.



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