



T.F. HUDGINS
INCORPORATED



APPLY THE POWER OF CM AND GAIN CONTROL OF YOUR EQUIPMENT.

Condition Monitoring Fundamentals

Recommended Audience

- Managers
- Engineers
- Planners
- Craft - Mechanical and Electrical
- Supervisors responsible for metrics, tracking, and use of information generated by CM programs

Session Dates

March 14-16, 2017

Location

T.F. Hudgins
4405 Directors Row
Houston, TX 77092

Price

\$1,495.00



Description

This course is designed to teach the fundamental principles of the five predictive technologies most prevalent in industry today: vibration analysis, infrared thermography, airborne and structure-borne ultrasonics, oil analysis, and motor circuit analysis. Upon completion of the course, attendees will have an understanding of the capabilities of the technologies and where to apply them, along with the common traps that may be encountered during application.

You Will Learn:

- The principles of Condition Monitoring (CM) and why it is so powerful
- How CM reduces overtime and emergency work
- How CM can increase the capacity of the plant without spending a dollar on capital investments
- What an asset health matrix is and how to use it
- How to strike the right balance between preventive maintenance and CM
- How to evaluate your CM program and eliminate unnecessary work
- How much CM is enough – what you can learn from Best Practice organizations and benchmarks
- How to implement a CM program using lean tools to make your CM program self-funding
- The common language of CM – key terms and definitions you should know
- How to identify mechanical, electrical, and stationary failure modes using CM technologies
- How to identify the common traps of each CM technology



Interested? Contact Us.

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www.linkedin.com/company/allied-reliability

BETTER TRAINING. BETTER BUSINESS.

LEARNING IMPACT MAP – 3 Day Workshop

inspiredTraining: Reliability Engineering Fundamentals

Purpose of Workshop:		<ul style="list-style-type: none"> • Understand how the application of reliability engineering fundamentals improves equipment reliability in a manufacturing environment. • Know when and how to use the principles of reliability engineering to prevent equipment failures. • Know how to convey the principles of reliability engineering to others in the organization. 	
LEARNING			
What will I learn?	What will I do with my training?	What skills will I gain?	
<p>Recall important terms and definitions in reliability statistics and FRACAS.</p> <p>Relate the basic philosophy behind Life Cycle Cost (LCC) analysis.</p> <p>Understand the importance of Reliability Centered Maintenance (RCM).</p> <p>Describe three methods of Root Cause Analysis (RCA).</p> <p>Identify the basic principles of Predictive Maintenance (PdM) inspections.</p> <p>Discuss the components of Human Factors Engineering in reliability.</p>	<p>Apply basic statistics in the maintenance environment on machinery failure data and work order histories.</p> <p>Evaluate long-term benefits and costs of projects and daily activities within maintenance.</p> <p>Analyze the failure modes and failure effects on critical equipment.</p> <p>Perform RCA on repetitive and chronic machinery failure.</p> <p>Identify and detect common traps associated with each of the PdM technologies.</p> <p>Reengineer poorly designed PM procedures, job plans, and operator start-up procedures.</p>	<p>Affect machinery reliability through the use of statistical analysis.</p> <p>Build an LCC model for maintenance and reliability decisions.</p> <p>Perform a Failure Mode, Effects, and Criticality Analysis (FMECA).</p> <p>Ensure that the root cause of the failure has been identified and eliminated.</p> <p>Identify the failure modes of equipment that are best identified through PdM.</p> <p>Construct a well designed procedure.</p>	
IMPACT	Site-Level Objective:	<ul style="list-style-type: none"> • Effect machinery reliability through the use of well documented work orders and the application of basic statistical tools. • Integrate the concept of financial impact into the decision making process. Improve efficiency of allocation of maintenance labor. • Strike the right balance of PM and PdM in the reliability strategy. 	<ul style="list-style-type: none"> • Construct a failure modes driven maintenance strategy. • Identify and eliminate the root cause of machinery failures. plant. • Prevent operator and maintainer-induced machinery defects.
	Business Unit Objective:	<ul style="list-style-type: none"> • Leverage best practices in reliability engineering to the company's competitive advantage. • Uncover and exploit the hidden capacity in the plants. 	
	Corporate Objective:	<ul style="list-style-type: none"> • Produce more product at a lower unit cost. 	