Criticality Analysis
Building an Accurate and Useful Ranking System

Practical Training Designed & Delivered by Real-World Practitioners

Join us for a class on both the theory and application of maintenance and reliability concepts, where we:

- Challenge your thinking
- Expose you to best practices
- Teach practical techniques for improving maintenance & reliability
- Show you a path to improving:
    - ✓ Process performance through increased availability
    - ✓ Lower maintenance costs

2-day Practitioner's Session

Core Concepts

- *Differentiating Risk and Criticality*
- *Statistical Underpinning of Ranking Methods*
- *Assessing the Analysis Results*
- *Categories, Questions & Answers*
- *How Analysis Results are to be Used*

❖ 1/2-day Course for *Leaders and Sr. Managers* also available

What will you learn?

- Define criticality and differentiate it from risk
- Create a composite criticality ranking assessment score
- Describe the three (3) levels of criticality ranking
- Discuss the importance of the maximum score of the ranking system
- Define the required resolution of a criticality ranking system
- Identify the importance and benefits of a cross-functional analysis
- List the typical categories for a composite criticality ranking
- How to assess the quality of the ranking results
- Define the different uses of the criticality ranking index number
- Discuss facilitation methods and challenges

Who is this class for?

- Maintenance Managers
- Reliability Engineers
- Maintenance Engineers
- Operational Leaders
- Maintenance Supervisors
- Operational Supervisors
- Plant Managers
- Reliability Leaders
- Maintenance Planners
- Plant/Facility Engineers

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Day 1

- Calculating Criticality
  - Risk versus Criticality
- Minimum Required Resolution
  - Groups & Citizenship
- Levels of Ranking
  - System, Equipment, & Failure Mode
- Categories, Questions, & Answers
  - Phrasing & Anchoring
- Category Weighting
  - Corporate Messaging
- Analyzing the Ranking Results
  - Answer Distribution & Histograms

Day 2

- Importance of Facilitation
  - Speed & Accuracy
- Facilitation Methods
  - Stalemates & Disruptive Participants
- Practical Exercises
  - Role-playing & Room Management
- Analysis of Client's Current System
  - Evaluation & Improvement Ideas

- Real World Examples
- Breakout Exercises

- Case Histories
- Group Discussions

Plant Reliability is the foundation on which Asset Management is built. The best developed Asset Strategy will prove ineffective if your plant behaves in an unpredictable manner.

Unforeseen failures foster a self-reinforcing reactive maintenance culture.

An understanding of reliability tools & techniques will help break the reactive maintenance cycle.

Meet your Instructor – Andy Page, Ph.D.

- Andy is a Certified Maintenance & Reliability Professional (CMRP) with over 30+ years of Physical Asset Management & Operational Field experience in multi-technique Condition Monitoring, Maintenance Management, Process Reliability & Improvement, Defect Elimination & Facilitation of Staff Training, Development & Mentoring.

- He is recognized internationally as an expert in predictive maintenance and reliability. He has spoken at maintenance conferences in several countries, and regularly leads clients through successful implementations of maintenance and reliability improvements.

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Inspire.Create.Deliver.