



INDUSTRIAL TRAINING ASSOCIATES

providing learning opportunities in precision maintenance

Towards Reliability for *Operations Managers*

This Seminar is intended for production and operations managers at all levels of responsibility. It will provide an understanding of current maintenance practices and how they may best be implemented to achieve the objective of “the optimum balance between plant availability and reliability with the lowest maintenance costs.”

Outcomes

The Outcome sought is to enable realistic expectations from maintenance services through a good working understanding of:

- The context of various maintenance practices
- Condition Monitoring within a context of reliability
- Root Cause Failure Analysis
- Quality Information Systems
- The relevance of Precision Skills applied on a plant-wide basis
- Measuring the benefits.

Delivery of this course will be set by demand or may be run as in in-house course.

Course Content

1: The Context of Various Maintenance Practices

- The Failure Process
- Risk
- The balance between Breakdown Maintenance, Planned Preventative Maintenance and Condition Based Maintenance.
- Underlying philosophies – Reliability Centred, Total Productive, etc

2: Condition Monitoring within a Reliability Context

- Factors limiting the effectiveness of Condition Based Maintenance
- A balanced approach to C. B. M.
- The benefits to be expected of C.B.M.

3: Root Cause Failure Analysis

- What it is, what it is not.
- Avoiding repetition of failure, mistakes, etc

4: A Quality Information System

- Turning data into useful information
- Effective reports
- Record keeping and history building
- Ready access to meaningful information
- Performance Indicators
- Review/Audits and ongoing improvement

5: Maintenance Programmes that are Effective

- Some companies have effective programmes in terms of increased reliability and reduced costs – others appear to follow the same philosophies, but do not. What is the missing ingredient.
- Regardless of the policies and the programmes put forward from the “top”, plant reliability will always be linked to the effectiveness of the operators and trades who work on the plant.
- The plant-wide application of precision focussed workplace skills.

6: Measuring the Benefits

- A simple process – the “ownership costs” of smooth machines versus rough machines.