

RISK BASED INSPECTION TECHNIQUES (REF:OTSRBIO01)

Course Objectives

To gain a detailed understanding of Risk Based Inspection Techniques.

Course Description

The Course will provide an insight into the benefits of Risk Based Inspection and the planning of inspection using risk analysis. It will also clearly outline that the purpose of Risk Analysis and to assess the consequences and risks of failure. As such the inspection plan can then target high-risk equipment and be designed to detect potential degradation before fitness-for-service can be threatened.

Who Should Attend

Planning Engineers responsible for safety of critical plant site inspections, maintenance engineers and others involved in industrial risk assessment details.

Pre-Requisites

All Attendees should have a sound power generation background.

Course Outcome

At the end of this course you will be able to inspect plants using risk based inspection techniques.

Day 1

- Introduction
- Introduction to Risk Based Inspection
- Background
- Objectives
- Equipment Covered
- Cause of Failure
- Risk Based Inspection
- Process of Risk Based Inspection
- Application of Risk Based Inspection
- System Definition
- Drivers Towards RBI Techniques
- Summary of Main Points

Day 2

- The Risk based Inspection Team
- Composition and Competencies
- Role of the Competent Person
- Role of the Team Leader
- Summary of Main Points
- Risk Analysis Procedures
- Elements of the Process
- Identification of Accident Scenarios
- Identification of Deterioration and Modes of failure

Day 3

- Risk Analysis Procedures
- Probability of failure Assessment
- Determination of the Form Equipment Failure
- Risk Ranking and Categorisation

Course Review and Feedback

