

RBD 201: Managing Plant Availability Simulation Course

COURSE: Plant Availability Simulation

DURATION: 2 Days

NUMBER OF STUDENTS: 12 maximum

VENUE: Client to provide training facility and catering

OBJECTIVE: The Objective of this workshop is to provide an understanding of the applicable methods for evaluating and improving system performance and to understand the important considerations in performing system analysis using failure rate data and failure behaviour parameters. Participants will use Reliability software RBD and AvSim Plus packages and work through actual industry examples.

- COURSE CONTENT:**
1. Introduction to Reliability Analysis Methods
 2. Network and System Analysis using Reliability Block Diagrams
 - Be able to solve a simple series and simple parallel RBDs.
 - Be able to solve complex RBDs and be able to solve RBDs with m out of n redundancy.
 3. Sources of Failure Rate Data
 4. System MTBF and Downtime Predictions
 5. Identifying the Important Equipment that Drives a System Performance
 6. The Influence of Failure Behaviour Over a Full Lifecycle
 7. Where Do I Get Failure Behaviour Parameters?
 8. Understanding the Role of Failure Modes on Systems Performance
 9. Predicting Plant Capacity
 10. Continuous Evaluation and Optimisation

Course Outcome:

Upon completion, participants will have a clear understanding of how to determine system level availability, maximum plant capacity MTBF and MTTR. They will know how to assess the impact of individual equipment reliability issues and maintenance actions on the system performance. Attendees will have a clearer concept of the role of failure data and how they can use it and why it is worth collecting. Their focus will change from past KPI measures to forward predictions and decision-making.

Contact Us

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