

Maintenance Planning and Scheduling for Reliability Online Training Course

Maintenance Planning Module 1 PowerPoint Presentation Slides (each slide has accompanying audio explanation and notes to read)

THE ROLE OF MAINTENANCE PLANNING AND SCHEDULING IN MAINTENANCE MANAGEMENT AND DELIVERING RELIABILITY

The image displays a grid of 50 PowerPoint slides, numbered 1 through 50, arranged in five rows and ten columns. Each slide contains text, diagrams, and charts related to maintenance planning and scheduling. The slides cover various topics including:

- Slide 1:** Maintenance Planning and Scheduling for Reliability
- Slide 2:** Module 1 Content
- Slide 3:** What Makes a Productive Equipment Life?
- Slide 4:** The 6 Purposes of Maintenance
- Slide 5:** Basic Maintenance Management Process
- Slide 6:** Purpose and Role of Maintenance Planning and Scheduling
- Slide 7:** Purpose and Role of Maintenance Planning and Scheduling
- Slide 8:** The Underlying Nature of Machine Design
- Slide 9:** Physics of Failure
- Slide 10:** Know the Limits of Your Parts
- Slide 11:** The Degradation Cycle
- Slide 12:** What is the Reliability of these Parts and Systems of Parts?
- Slide 13:** What is the Reliability of this Drinking Glass?
- Slide 14:** Chance of Failure for a Drinking Glass
- Slide 15:** Measuring the Likelihood of Failure
- Slide 16:** All Our Machines are Parts in Series
- Slide 17:** Reliability Properties for Series Systems
- Slide 18:** All Our Work are Activities in Series
- Slide 19:** Reliability Properties 1, 2, 3 for Series Systems
- Slide 20:** Reliability Properties for Parallel Systems
- Slide 21:** Reliability Properties 1, 2 for Parallel Systems
- Slide 22:** Common Mechanical Equipment Failure Modes
- Slide 23:** Defect Creation and Failure Initiation
- Slide 24:** Common Defect Management Strategies
- Slide 25:** Defect Elimination and Failure Prevention
- Slide 26:** The Trouble with Accepting a Defect
- Slide 27:** Reliability of Series Work Process
- Slide 28:** The Carpenter's creed: measure twice, cut once
- Slide 29:** Can we get 10,000% fewer errors?
- Slide 30:** Parallel Process Reliability
- Slide 31:** How Much Must I Control Chances?
- Slide 32:** But Preventing that Costs Cost... So what can you do?
- Slide 33:** To Have Reliability Growth You Must Reduce the Chance of Failure
- Slide 34:** Machines Suffer High Risk from Human Contact
- Slide 35:** Equipment reliability is made by ethics of safety and quality of practices
- Slide 36:** Failure Mode and Effects Analysis Definitions
- Slide 37:** Failure Mode Effects Analysis
- Slide 38:** Failure Mode and Effects Analysis (FMEA)
- Slide 39:** Planning Module 1 Assessment Activity 1 - Failure Mode and Effects Analysis (FMEA)
- Slide 40:** Equipment Criticality
- Slide 41:** Set an Acceptable Equipment Failure Domain and Manage your Business Risk to it
- Slide 42:** Match Maintenance Strategies to Equipment Operating Risk
- Slide 43:** Identify your Equipment Risks and Priority Equipment
- Slide 44:** Develop an Equipment Criticality Matrix
- Slide 45:** Equipment Criticality for Subassemblies
- Slide 46:** Equipment Criticality for Subassemblies
- Slide 47:** Establish Equipment Condition Monitoring
- Slide 48:** Measuring the Likely Improvement from doing Maintenance Activities
- Slide 49:** The Application of Risk Based Principles to Maintenance
- Slide 50:** Planning Module 1 Assessment Activity 2 - Equipment Criticality and Maintenance Selection