

iRCM 3-Day Master Planning and Scheduling Certification Course Outline



Day One

Planning and Scheduling Basics

- **Why Plan and Schedule?**
 - Maintenance Costs
 - General Time and Efficiency
 - The Difference between Quality and Reliability
 - Quality of Work
 - PMs and PM Optimization
 - Condition Based Maintenance
 - Corrective Maintenance
 - Theoretical Impact on Reliability

Morning Break

Functional Overview

- **Workflow and Job Functions**
 - Coordination
 - Planning
 - Scheduling
 - Compliance

Lunch Break

Understanding How Planning and Scheduling Should Impact Reliability

- **The Nature of Most Failures**
 - Understanding **Collateral Damage**
 - Failure Curves
 - P-F Intervals
 - Criticality of Effective Coordination

Afternoon Break

- **The Nature of Most Failures (cont.)**
 - Understanding **Secondary Damage**
 - The Effects of Secondary Damage
 - Secondary Damage and Operational Trust
 - Production Time vs Maintenance Time
 - Coordination Credibility
 - Impacts on Scheduling

End of Day One

Day Two

How to Maximize the Effects of Planning Scheduling and Coordination on Reliability

- **Organizational Work-Practices**
 - Time and Efficiency
 - Maintenance Rework
 - Poor Mechanical Practices
- **Poor Best Practices and they Impact the Planning and Scheduling Function**
- **Wrench-Time**
 - Wrench-Time – What it is and its Importance
 - Wrench Time and Resources
 - Wrench-Time and Maintenance Costs
 - Wrench-Time and Reliability
 - How to perform a Wrench-Time Study
 - Measuring levels of Wrench-Time

Morning Break

- **Wrench-Time (cont.)**
 - Understanding Leading and Lagging KPIs
 - Planning and Scheduling Specific KPIs
 - Effective Levels of Wrench-Time
 - Methods of Increasing Wrench-Time

The True Impact of Planning and Scheduling on Reliability

- **Organizational Constraints**
 - **Resources**
 - **Budget**
 - **Training and Qualified Personnel**
 - **Cultural Constraints**
 - Q&A Interactive Discussion Brainstorming Session
 - Story Telling
 - How My Current Company's Culture Impacts My Work
 - Comparing Stories

Lunch Break

Cultural Dynamics

- Values
- Role-Models
- Rituals
- Rites and Rewards

Afternoon Break

Organizational Structures and Management

- **Classifying Business Functions**
- **Department Business Functions**
- **Organizational Business Functions**
 - **Authority and Responsibility**

End of Day Two

Day Three

iRCM Core Principles

- The 12 Core Business Principles
- World Class Management
- The Concept of Core Competency
- Achieving True Operational Reliability

Cooperative Relationships

- Production and Maintenance
 - Coordinator Credibility
 - Building Trust through Cooperation and Decision Making
 - Using a Decision Matrix

Morning Break

- Operations and Maintenance
 - Autonomous Maintenance and Ownership
- Reliability Engineering and Maintenance
 - Should Maintenance be Ultimately Responsible for Reliability?
 - Should Operations be Ultimately Responsible for Quality?
- Maintenance and Procurement
- Part Availability
 - Critical Spares
 - Parts Hoarding
 - Returning the Bad Parts
- Spare Parts Stewardship and Integrity
- Importance of Inventory Best practices and Core Competency

Organizational Values

- Establishing Organizational Values
- Safety, Quality, Environmental Compliance and Reliability
- How Value Streams Flow through the Culture
- Importance of High-Performance Values
- Recognizing Low Performance and or False Values
- Impact of Setting High Performance Values on the Culture

Lunch Break

World Class at Planning and Scheduling (Recap of Learning)

- Areas of Core Competency

Certification Exam Preparation

- Practice Exam Questions
- How to take Multiple Choice Exams

Afternoon Break

2:30-4:00 PM

iRCM Internationally Accredited “Certified Planning and Scheduling Professional Exam”

90 Minutes to complete 75 Multiple Choice Exam Questions

Minimum Passing Score 68%

END OF TRAINING PROGRAM