

BEST MAINTENANCE TECHNICIAN PRACTICES



THREE DAY WORKSHOP

Instructor: Ricky Smith CMRT, CMRP



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This workshop can be delivered for your organization on site or virtual

PRESENTED BY:
RICKY SMITH CMRP, CMRT

PARTNERSHIP WITH:
THE MAINTENANCE
COMMUNITY BY UPKEEP



WORLD
CLASS
MAINTENANCE

OVERVIEW

THE OBJECTIVE

The objective of the course is to align Maintenance Technicians with Maintenance and Reliability Leadership in "Known Best Maintenance and Repair Practices". This alignment will bring down barriers most organizations face when trying to optimize asset reliability.

- o To enhance communication between maintenance, reliability, production, and plant leadership and maintenance technicians.
- o To provide the vision of proactive and maintenance to all maintenance technicians.
- o To increase knowledge and skills for maintenance technicians through education and knowledge sharing.
- o To define roles and responsibilities between technicians and managers.
- o To reduce turnover of maintenance technicians because of lack of understanding between management and hourly technicians.

OVERVIEW

COURSE OUTLINE

- o Benefits of the CMRT Exam and Certification
- o Review of Certified Maintenance & Reliability Technician (CMRT) Candidate Guide for Certification and Recertification
- o Definition of Maintenance of Reliability Best Practices
- o SMRP Body of Knowledge
- o Definition of Maintenance and Reliability "Best Repair" Practices
- o Causes of Equipment Failures
 - Inconsistent Execution of Work
 - Lack of effective Processes
 - Lack of Knowledge
 - Lack of Repeatability
 - Lack of proper aligned Leading and Lagging KPIs
- o Preventive Maintenance / Prediction Maintenance
- o Maintenance Planning and Scheduling
- o Importance of Accurate Equipment Data
- o Work Order Expectations and Outcomes
 - Optimization of Asset Reliability through data
 - Failure Reporting, Analysis and Corrective Action
 - CMMS/EAM Fundamentals and Outputs
 - ISO 14224 and why Maintenance Data is critical to reduce equipment failures
 - Best Storeroom Practices
- o Min/Max/Reorder Point Maintenance Kitting
 - How a Schedule job should work with stores
- o Equipment Problems and Solutions
 - Equipment Problem Board with Pictures
 - o Problems
 - o Cause
 - o Corrective Action Taken
 - o Verification
 - o Root Cause Analysis at the Technician Level
 - 5's
 - Other RCA Techniques used as a team
 - FRACAS (Failure Reporting, Analysis, Corrective Action System)
- o Repeatable procedures and why they are critical
- o Work Execution
 - Discipline requirements for an expected outcome
 - Maintenance Knowledge and Skill (training)
 - Maintenance Rework
 - Tool Requirements
 - Parts and Material Requirements
 - Verification and Validation of Work Execution
- o Best Practices for Installation and Maintaining
 - Bearings, Hydraulics, Lubrication, V-Belts, Gearboxes, Electrical Components, Electric Motors and Drives, etc.
- o What to do different when you return?