

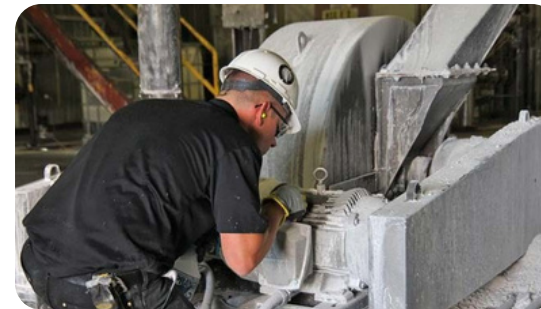
# PREPARING FOR MAINTENANCE CERTIFICATIONS TIPS + TRICKS

BY: **RICKY SMITH, CMRP,  
CMRT, CRL**



# Why Obtain a Maintenance Certification?

1. To validate your knowledge and experience in a specific maintenance field
2. To assist in obtaining a maintenance position at a specific organization
3. To move up in that next step to a higher-level position,  
Example:
  - Maintenance Technician to Maintenance Supervisor
  - Maintenance Supervisor to Maintenance Manager, etc.
4. To feel pride in your position
5. Add confidence in your current position



# Things You Need to Know before you Take any Maintenance Certification

1. **Cost vs Benefit**
2. **Recertification Cost**
3. **Recertification Criteria**
  - Training Required
  - Cost
  - Frequency
  - Any additional criteria
  - Conferences to attend Etc.



# Types of Maintenance Certification

CMRP–Certified Maintenance and Reliability Professional -TheCMRPis a certification exam, and it's the leading credential for validating knowledge and skills relating to maintenance, reliability, and physical asset management.

CMRT–Certified Maintenance and Reliability Technician -TheCertifiedMaintenance & Reliability Technician (CMRT) program is the leading credentialing program for the knowledge, skills and abilities of maintenance and reliability technicians.

CAMA –The Certified Asset Management Assessor (CAMA) program was developed by SMRP and several international partners to assess an individual's qualifications to be an auditor of asset management systems.

CRL–Certified Reliability Leader -TheCertifiedReliability Leader®(CRL) focuses on whole life asset reliability decisions and whole life value delivery through leadership. The system provides guidance and is a map of theory, to engage and empower every stakeholder in your organization as a Reliability Leader.

CPMM –Certified Plant Maintenance Manager -This credential is designed to validate that thecertifiedperson possesses the professional expertise and knowledge required to successfully perform plant and facilities supervisory activities.

FMP-Facility Management Professional -TheFMP certification, which is offered by the International Facility Management Association (IFMA), includes course materials on operations, maintenance, project management, finance, and leadership. Candidate complete the program with four final exams.

•CFM -Certified Facility Manager -Another credential offered by the IFMA, the CFM designation centers more on experiential competence rather than mastery of course materials. The final examination consists of 180 multiple choice questions covering various competency areas, including maintenance, human factors, communication, risk management, and sustainability.



# Requirements for Maintenance Certifications

## CMRP–Certified Maintenance and Reliability Professional

- The CMRP is available to any maintenance and reliability professional, regardless of education background or work experience. Candidates interested in sitting for the CMRP must:
  - Complete and submit the CMRP application
  - Pay all applicable fees in advance
  - Have not sat for the exam within the past six (6) months
  - The CMRP Candidate Guide for Certification and Recertification, found under the CMRP Exam Study Resources tab, contains more information about the exam and eligibility requirements.
  - Study SMRP Body of Knowledge
  - Study Maintenance and Reliability Best Practices

## CMRT–Certified Maintenance and Reliability Technician

- There are no educational experiences or other requirements
- Complete application form, payment of applicable fees in advance
- No conviction of a felony or other crime of moral turpitude under international, national, federal or state law in any matter related to the practice of or qualification for professional activity.

## CRL–Certified Reliability Leader

- Prepare by studying the CRL Body of Knowledge.
- Prepare by studying the CRL Course in the Uptime® Elements Academy online learning management system.
- Prepare by attending a CRL Workshop.
- Submit a CRL Exam Registration Form.
- Receive a passing score on a proctored CRL exam.

## CPMM –Certified Plant Maintenance Manager

- An employment verification form needs to be completed by your employer(s) based on your employment history and eligibility.
- If you have been with several employers within a five-year period, a form from each employer is required.

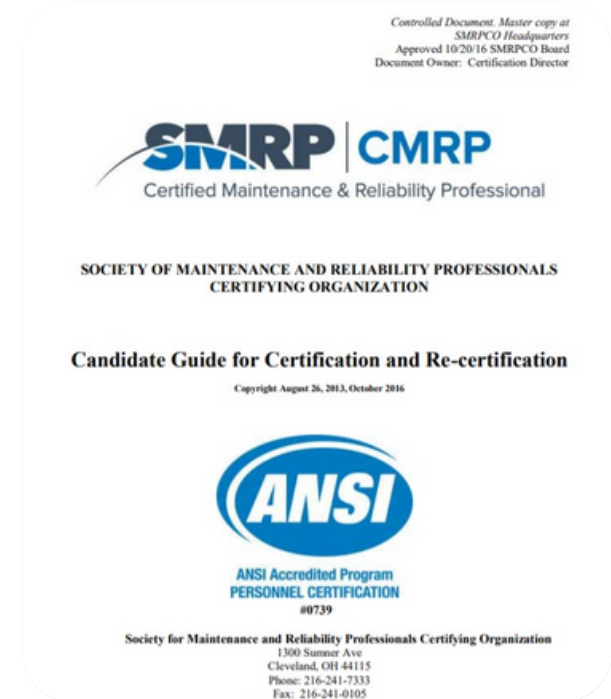


# Criteria for Taking a Certification Exam

## All Maintenance Certifications have different criteria Identify the Criteria of the Exam (Example -

**CMRP**) CMRP is available to any maintenance and reliability professional, regardless of education background or work experience.

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  - The CMRP Candidate Guide for Certification and Recertification, found under the CMRP Exam Study Resources tab, contains more information about the exam and eligibility requirements.
  - Study and Know the SMRP Body of Knowledge and SMRP Metric
- Exam Fees:
  - SMRP members: \$300.00 (USD) / (with SMRP Membership -\$170.00)
  - Sustaining Sponsor employee or U.S. Veterans: \$250.00 (USD)
  - Nonmembers: \$470.00 (USD)



# Maintenance Certification Tips and Tricks #1

## Understand the Foundation Elements of the Certification(example –CMRP)

**The key elements of SMRP’s mission are the improvement of the maintenance and reliability profession and supporting the education of maintenance and reliability practitioners.**

**From the first days of SMRP, it was clear that there were no consistent, well-defined standards for the “SMRP Body of Knowledge” and capabilities that maintenance and reliability practitioners should have to be effective.**

**Further, there was no way to differentiate those who have mastered the various elements of excellence from those who simply hold the job.**

**SMRP realized that without a well-defined body of capabilities and a method of assessment it could not realistically fulfill all elements of our mission.**

**Improving the profession requires a standard of excellence and an incentive to attain the standard.**

**Maintenance and reliability managers are often promoted because of technical skills, without regard for their ability to improve work processes, create change, or manage people.**

**SMRP believes that maintenance and reliability practitioners need greater stature and credibility in their organizations and industry to be heard.**

**We believe the message of Maintenance and Reliability adding value is often drowned out by day-to-day production demands.**



# Maintenance Certification Tips and Tricks #2

Study, Study, Study

Study with “right information”

Study the Information Required for the exam, “do not think you know the answers to any exam” (2 hours a night for “x” number of days)

Study in a Group if possible (enlist others to take the exam with you)



## CMRP Recommended Study Material Downloads

[www.worldclassmaintenance.org](http://www.worldclassmaintenance.org)



# Maintenance Certification Tips and Tricks #3

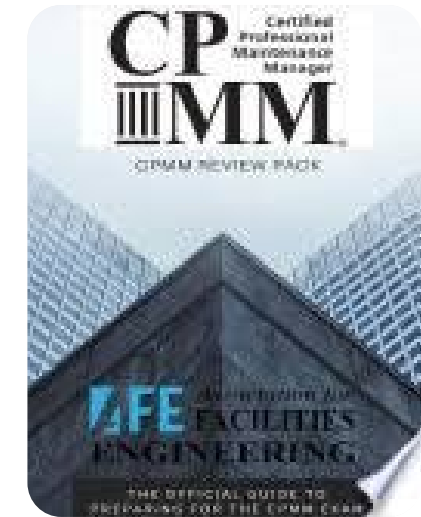
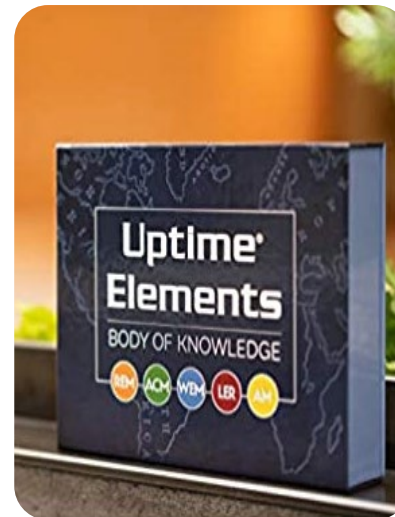
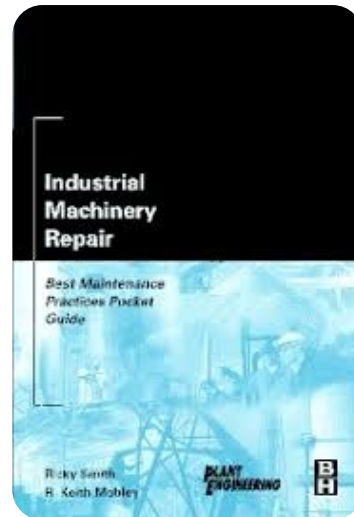
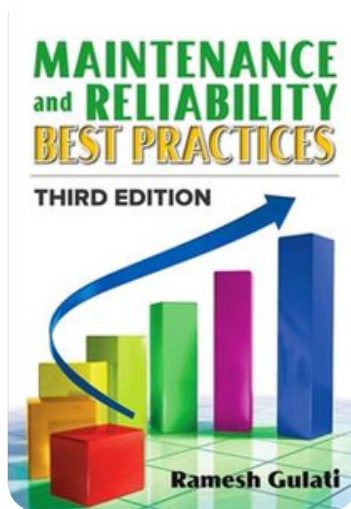
Purchase a Book on Best Practices and “Take Practice Exams” in Each Book

**CMRP Certification –“Maintenance and Reliability Best Practices” by Ramesh Gulati**

**CMRT Certification –“Industrial Machinery Repair” by Ricky Smith and Keith Mobley**

**CRL Certification –“Certified Reliability Leader Complete Body of Knowledge”**

**CPMM –“Certified Professional Maintenance Manager Review Pack”**



# Maintenance Certification Tips and Tricks #4

## “Attend Training”

**CMRP Certification –Maintenance Best Practices and SMRP Body of Knowledge Training**

**Attend SMRP Monthly Webinars (you must be a member to attend these training sessions)**

**CMRT Certification –Best Maintenance Technician Practices Training**

**CRL Certification –Certified Reliability Leader Workshop**

**CPMM –Certification Plant Maintenance Manager Workshop**



# Maintenance Certification Tips and Tricks #5

## “4 Weeks and Night Before Exam Recommendations”

### 4 Weeks Before:

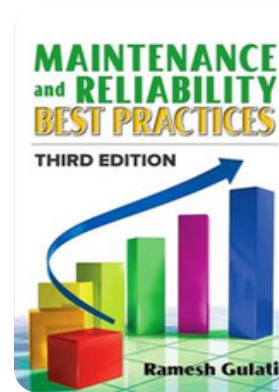
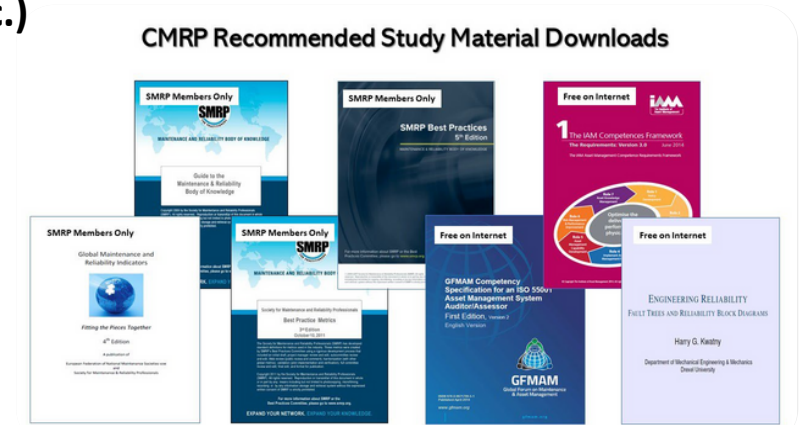
Join the organization who sponsors the exam (SMRP, AFE, AMP, etc.)

Begin studying all information each exam will cover (8 nights –2 hours each night)

Follow my recommendation in this slide presentation

### Night Before:

Do not drink excessive alcohol Get at least 6 hours of sleep



# Maintenance Certification Tips and Tricks #6

## “Things NOT to Do”

**Purchase CMRP or CMRT Practice Exam –Waste of Money**

**Decide you do not need to study, examples of study material:**

**SMRP Body of Knowledge (must be an SMRP member to download)**

**SMRP Best Practices (must be an SMRP member to download)**

**SMRP Metrics (must be an SMRP member to download)**

1. The Best way to assure that a full-face respirator has a positive seal is to place the palms of your hands:
  - A. Over the discharge and inhale
  - B. Over the inlet and inhale
  - C. On the front and press toward your face
  - D. On the bottom and push up
2. According to industry standards, at which minimum working height would an individual be required to wear a safety harness?
  - A. 3 feet
  - B. 4 feet
  - C. 5 feet
  - D. 6 feet
3. In OSHA regulations, the term positive lockout refers to what feature in maintenance?
  - A. Lockout-tagout
  - B. Machine guarding
  - C. Personal protective
  - D. Pre-operational
4. Which of the following is an example of preventive maintenance?
  - A. Changing oil on an hour meter point
  - B. Changing V belts once a year on a fan drive
  - C. Lubricating equipment on a set schedule
  - D. Monitoring with a vibration equipment
5. The opening of a relief valve is caused due to an increase in:
  - A. Pressure
  - B. Temperature
  - C. Valve
  - D. Flow

# YOUR QUESTIONS?



Future Questions: [rsmith@worldclassmaintenance.org](mailto:rsmith@worldclassmaintenance.org)

**BEST MAINTENANCE TECHNICIAN PRACTICES**

THREE DAY WORKSHOP

DATE: February 23-25, 2021

PRICE: \$750 USD/PERSON

RSVP OR REQUEST MORE INFO BY EMAILING [RSMITH@WORLDCLASSMAINTENANCE.ORG](mailto:RSMITH@WORLDCLASSMAINTENANCE.ORG)

Training will be hosted Virtual (via Internet) / Live at Southern Wesleyan University (4 miles outside of Clemson, SC)

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

#### Course Objectives

- To enhance communication between Maintenance / Reliability / Production / Plant Leadership and Maintenance Technicians
- To provide the vision of Proactive and Maintenance to all Maintenance Technicians
- To increase knowledge and skills for Maintenance Technician through education and knowledge sharing
- To define Roles and Responsibilities between technicians and management
- To reduce turnover of Maintenance technicians because of lack of understanding between management and hourly technicians

#### Course Outline

- Benefits of the CMRT Exam and Certification
  - Review of Certified Maintenance & Reliability Technician – CMRT - Candidate Guide for Certification and Recertification
  - Definition of Maintenance of Reliability Best Practices
  - SMRP Body of Knowledge and the Relationship to
  - Definition of Maintenance and Reliability "Best Repair" Practices
  - 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
  - Preventive Maintenance / Prediction Maintenance
  - Maintenance Planning and Scheduling
- .... **And so much more**

"Virtual via Zoom (Internet) and Live at Southern Wesleyan University – 4 miles from Clemson, SC

## Maintenance Best Practices / SMRP Body of Knowledge

All attendees will receive a copy of Ramesh Gulati's "Maintenance Best Practices" book.

April 27-29, 2021

In this workshop we will discuss and explain...

- Known Maintenance and Reliability Best Practices
- Maintenance Planning
- Maintenance Scheduling
- Maintenance Rework
- Maintenance Work Execution
- Failure Reporting
- Predictive Maintenance/Condition Monitoring
- Materials Management
- SMRP Body of Knowledge
- SMRP Metrics Definitions
- SMRP Best Practices
- SMRP Global Maintenance and Reliability Indicators
- GFMAM Asset Management Landscape
- IAM Competency Framework
- ENGINEERING RELIABILITY FAULT TREES AND RELIABILITY BLOCK DIAGRAMS by Harry G. Kwatny
- ADKAR "A Model for Change in Business, Government, and our Community"
- Simple Tips for taking the CMRP Exam



Interested: Send an email to [rsmith@worldclassmaintenance.org](mailto:rsmith@worldclassmaintenance.org)

[WWW.WORLDCLASSMAINTENANCE.ORG](http://WWW.WORLDCLASSMAINTENANCE.ORG)



# #1 Software for Maintenance & Reliability Teams

UpKeep is a service-first company that builds software designed to make maintenance easier for technicians and managers everywhere. Reduce downtime up to 18% by switching over to a preventative maintenance solution!

[www.upkeep.com](http://www.upkeep.com)

## Our Products



### Mobile-first maintenance management and collaboration across all location, assets, and teams

"With nearly 340 different machines in our work environment, it's an impossible task to manually assign and track PM's. *With UpKeep we can schedule regular maintenance without overlapping tasks with other critical jobs.*"

★★★★★ Paul D, Health and Safety Coordinator



### An end-to-end solution for remote condition-based monitoring

Connected and secure IoT sensors for real-time remote condition asset monitoring



**DATAHUB**  
UpKeep

### Integrated & Centralized Data Ecosystem for World Class Asset Operations

The only purpose built Asset Data Platform. Asset Focused ELT Solution for advanced analytics and integrated, real-time asset data.



### The Maintenance Community Coalition was founded on the belief that working together will benefit everyone within our community

Committed to helping each other thrive in our individual professional journeys by sharing resources and expertise, granting scholarships, hosting events, and unlocking knowledge – always at no cost.

