

TOTAL PRODUCTIVE MAINTENANCE (TPM) CERTIFICATION

As per International Standards



UNICHROME

Unichrone Training **Advantages**

- ✓ 1 Day Interactive Instructor-led Online/Classroom or Group Training
- ✓ Course study materials designed by subject matter experts
- ✓ Mock Tests to prepare in a best way
- ✓ Highly qualified, expert & accredited trainers with vast experience
- ✓ Enrich with Industry best practices and case studies and present trends
- ✓ Total Productive Maintenance (TPM) Training Course adhered with International Standards
- ✓ End-to-end support via phone, mail, and chat
- ✓ Convenient Weekday/weekend Total Productive Maintenance (TPM) Training Course schedule



About Unichrone

✓ We are a professional training institute with an extensive portfolio of professional certification courses. Our training programs are meant for those who want to expand their horizons by acquiring professional certifications across the spectrum. We train small- and medium-sized organizations all around the world, including in USA, Canada, Australia, UK, Ireland and Germany.



Guaranteed Quality



Handpicked Trainers



Global Presence



Online Training Option

We've trained professionals across global companies

PHILIPS

AXCESS
FINANCIAL PRODUCT MANAGEMENT

CLARIANT



AkerSolutions

WÜRTH

baycoat

DU PONT

DASHTI

GlobalSign

Triskele Labs

مصرف الراجحي
Al Rajhi Bank

DHL

ARASCO



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Importance of Total Productive Maintenance (TPM) Training

- ✓ TPM Certification is a formal acknowledgment of a professional attesting to professional competency in principles and application of TPM in improving manufacturing processes. **Total Productive Maintenance** (TPM), a concept that recognizes that it is easier to maintain and improve equipment if potential problems are counteracted at their roots, is geared at making wastes in equipment completely eradicated.
- ✓ Total Productive Maintenance Certification Training helps participants acquire all the needed knowledge to maintain manufacturing processes and improve efficiency of the equipment. Here, participants acquire extensive knowledge of Total Productive Maintenance by learning about principles and methodologies as well as its application. On completion of program, candidates will be able to determine and eradicate all forms of waste; apply the appropriate techniques of preventive maintenance; and develop a culture of improvement. Course helps them to facilitate performance in operations, enhance equipment dependability, and benefit their organizations enormously.

ELIGIBILITY CRITERIA

- ✓ Aspirants need not meet any requirements to pursue Total Productive Maintenance (TPM) Training Course. However, having prior knowledge is beneficial.

WHO SHOULD ATTEND

- ✓ Individuals who want to gain skills to understand TPM can enroll in the Total Productive Maintenance (TPM) Training course.

TOTAL PRODUCTIVE MAINTENANCE (TPM) CERTIFICATION ADVANTAGES



CERTIFIES
YOUR TALENT



HELPS
BUILDING
VALUES



GLOBAL
RECOGNITION



PERFECT
EXECUTION



BUILDS
CUSTOMER
LOYALTY



MORE
EMPLOYABILITY
OPTIONS

Syllabus of Total Productive Maintenance (TPM) Training

Lesson 01 – Introduction to TPM

| | |
|-----|-------------------------------------|
| 1. | What is TPM? |
| 2. | What does TPM stands for? |
| 3. | History of TPM |
| 4. | Difference between TQM & TPM |
| 5. | Need of TPM in organization |
| 6. | Principles of TPM |
| 7. | TPM-A Zero sum game |
| 8. | Goals and objectives of TPM |
| 9. | Difficulty in implementation of TPM |
| 10. | The TPM Paradigm Shift |
| 11. | TPM is a team effort |
| 12. | Expectation from TPM |
| 13. | Pre-TPM checklist |
| 14. | Roles and Responsibilities in TPM |
| 15. | The Operators role |
| 16. | The Specialists role |
| 17. | Improvement teams role |

Lesson 02 – TPM Pillars

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|----|--|
| 1. | TPM-8 pillars Introduction |
| 2. | Pillar 1: Autonomous maintenance (JishuHozen) |
| 3. | Pillar 2: Focused Improvement (Kobetsu Kaizen) |
| 4. | Pillar 3: Planned Maintenance |
| 5. | Pillar 4: Quality Maintenance |
| 6. | Pillar 5: Early Equipment Maintenance |
| 7. | Pillar 6: Education and Training |
| 8. | Pillar 7: Safety, Health and Environment |
| 9. | Pillar 8: Office TPM |

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Lesson 03 – Maintenance under TPM

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|-----|---|
| 1. | Autonomous Maintenance |
| 2. | Goals & objectives of autonomous maintenance |
| 3. | 7 Steps to autonomous maintenance |
| 4. | Step-1: Initial clean-up using 7S system |
| 5. | Step-2: Repair sources of defects |
| 6. | Step-3: Develop standards & data collection |
| 7. | Step-4: Standards for monitoring key process parameters |
| 8. | Step-5: Train operators on function & troubleshooting |
| 9. | Step-6: Provide spare parts & tools orderliness |
| 10. | Step-7: All out autonomous maintenance |
| 11. | Breakdown Maintenance |
| 12. | Goals and objectives of breakdown maintenance |
| 13. | 3 Steps to standardized breakdown work |
| 14. | Step-1: Identify root cause |
| 15. | Step-2: Eliminate cause |
| 16. | Step-3: Standardize preventive work to eliminate reoccurrence |
| 17. | Transition of breakdown maintenance to preventive maintenance |

Lesson 04 – Maintenance under TPM, Contd.

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| 1. | Planned Maintenance |
| 2. | Goals and objectives |
| 3. | 7Steps of planned maintenance |
| 4. | Step-1: Support to 'Autonomous Maintenance' activities |
| 5. | Step-2: Evaluation of breakdown status |
| 6. | Step-3: Reverse deterioration & correct weaknesses |
| 7. | Step-4: Build an 'Information Management' system |
| 8. | Step-5: Build a 'Periodic Maintenance' system |
| 9. | Step-6: Build a 'Predictive Maintenance' system |
| 10. | Step-7: Evaluate the planned Maintenance system |
| 11. | Upstream Maintenance |
| 12. | Goals and objectives |
| 13. | Short steps to maintenance excellence |

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Lesson 05 – TPM Losses

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|-----|---|
| 1. | Definition of losses |
| 2. | Causes of losses |
| 3. | 6 Big losses of TPM |
| 4. | Breakdown losses |
| 5. | Setup and adjustment losses |
| 6. | Idling and minor stoppage |
| 7. | Reduced Speed losses |
| 8. | Quality defects and rework |
| 9. | Start-up losses |
| 10. | Basic quality management tools from TPM |
| 11. | Definitions of AR, QR, PR & OEE |
| 12. | Zero Accident |
| 13. | Definition of zero accidents |
| 14. | Steps in zero accidents |

Lesson 06– Prerequisites of TPM

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|-----|---|
| 1. | 9 Essentials of TPM |
| 2. | 7 Steps of operator maintenance |
| 3. | Initial cleaning |
| 4. | Countermeasures at the sources of problems |
| 5. | Cleaning and lubrication standards |
| 6. | General inspection |
| 7. | Autonomous inspection |
| 8. | Organization and tidiness |
| 9. | Full autonomous maintenance |
| 10. | The new roll for the maintenance department |

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Lesson 07 – TPM Education & Training

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| 1. | GEMBA Workshops |
| 2. | Key indicators |
| 3. | Strive workshop and “7S” Initiatives |
| 4. | Visual management |
| 5. | Process flow |
| 6. | Autonomous work checklists |
| 7. | Display key process parameters |
| 8. | One-Point lessons |
| 9. | Tools management |
| 10. | Suggested Reading |

Lesson 08 – Measuring TPM effectiveness

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| 1. | The philosophy of setting goals |
| 2. | Types of indicators |
| 3. | Evaluating TPM |
| 4. | Overall Equipment efficiency |
| 5. | Definition of OEE |
| 6. | OEE Factors |
| 7. | The Role of OEE in Total Productive Maintenance |
| 8. | How to calculate? |
| 9. | How To Improve Overall Equipment Effectiveness (OEE) |
| 10. | Direct & Indirect benefits of TPM |

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| Lesson 09 – Predictive Maintenance | |
|------------------------------------|---|
| 1. | Definition of Predictive maintenance. |
| 2. | Benefits of Predictive Maintenance |
| 3. | Risks associated with poorly maintained equipment |
| 4. | Equipment condition monitoring thro Statistics |
| 5. | Analyzing data |
| 6. | Determining maintenance needs |
| 7. | Maintenance planning, execution & reporting |

Exam Format of Certified Total Productive Maintenance (TPM) Certification

| Examination Format | |
|----------------------------|---|
| Exam Name | Total Productive Maintenance (TPM) Exam |
| Exam Format | Multiple Choice |
| Total Questions & Duration | 30 Questions, 1 Hour |
| Passing Score | Minimum passing score of 70% |
| Exam Cost | Included in training fee |

To get you fully prepared with the knowledge and skills for Total Productive Maintenance (TPM), a training session at Unichrone gives immense importance to mock questions at the end of every module and problem-solving exercises within the session. Prepared by certified faculty, the practice tests are a true simulation of the Total Productive Maintenance (TPM) exam.

Contact Us

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<https://unichrone.com/>

