Implementing Total Productive Maintenance (TPM) Training Course



21 - 25 Dec 2026

Cairo

3700 € (Per Person)

Ref: #INM5968_277833

Course Introduction / Overview:

Total Productive Maintenance (TPM) is a holistic approach to equipment maintenance that strives to achieve perfect production with no breakdowns, no small stops or slow running, no defects, and no accidents. This intensive training course provides a comprehensive framework for understanding and implementing TPM principles to drive operational excellence. Drawing upon the foundational work of pioneers like Seiichi Nakajima, often regarded as the father of TPM, and concepts from his book "Introduction to TPM: Total Productive Maintenance", this program moves beyond theory. It focuses on the practical application of the eight pillars of TPM to eliminate the six big losses and significantly improve Overall Equipment Effectiveness (OEE). At BIG BEN Training Center, we have designed this course to empower organizations to build a collaborative culture where operators are engaged in proactive maintenance, and continuous improvement becomes an integral part of daily operations. Participants will learn to develop a strategic TPM roadmap, foster employee ownership, and transform their maintenance practices from a reactive function to a proactive, value-driven competitive advantage, ensuring long-term sustainability and profitability.

Target Audience / This training course is suitable for:

- Plant Managers and Operations Directors.
- Maintenance Managers and Supervisors.
- Production and Manufacturing Managers.
- Reliability and Maintenance Engineers.
- Continuous Improvement and Lean Specialists.
- Quality Assurance Managers and Professionals.
- Team Leaders and Production Supervisors.
- Key Operators and Maintenance Technicians.
- Health, Safety, and Environment (HSE) Managers.

Target Sectors and Industries:

- Manufacturing and Assembly.
- Automotive and Aerospace.
- Pharmaceuticals and Life Sciences.
- Food and Beverage Processing.
- Fast-Moving Consumer Goods (FMCG).
- Chemicals and Process Industries.
- Oil and Gas Operations.
- Mining and Heavy Industry.
- Government and Public Sector Utilities.
- Logistics and Distribution Centers.

Target Organizations Departments:

- Operations and Production.
- Maintenance and Engineering.
- Quality Assurance and Quality Control.
- Continuous Improvement and Operational Excellence.
- Supply Chain and Logistics.
- Health, Safety, and Environment (HSE).
- Asset Management.
- Human Resources and Training.

Course Offerings:

By the end of this course, the participants will have able to:

- Develop a comprehensive TPM implementation roadmap tailored to their organization.
- Master the calculation and analysis of Overall Equipment Effectiveness (OEE).
- Identify and systematically eliminate the six big losses in production processes.
- Implement the foundational 5S methodology to create a safe and efficient workplace.
- Lead and facilitate Focused Improvement (Kobetsu Kaizen) projects.
- Establish a robust Autonomous Maintenance (Jishu Hozen) program for operators.
- Design and manage an effective Planned Maintenance system.
- Integrate Quality Maintenance (Hinshitsu Hozen) principles to achieve zero defects.
- Foster a culture of proactive maintenance and employee ownership.
- Conduct TPM audits to measure progress and ensure sustainability.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be highly interactive, engaging, and practical, ensuring that participants can immediately apply their learning in the workplace. This course moves beyond traditional lectures, employing a blended learning approach that includes detailed presentations, real-world case studies of successful TPM implementations, and facilitated group discussions. A significant portion of the training is dedicated to hands-on workshops and practical exercises where participants will work in teams to solve simulated operational challenges, calculate OEE, and develop maintenance strategies. These activities are designed to reinforce key concepts and build problem-solving skills in a collaborative environment. Our expert instructors foster a dynamic learning atmosphere, encouraging active participation and knowledge sharing among attendees from diverse industries. Continuous feedback is provided throughout the course to ensure a deep understanding of TPM principles and to equip participants with the confidence and competence to lead change within their own organizations.

Course Agenda (Course Units):

Unit One: Foundations of Total Productive Maintenance

- Introduction to TPM philosophy and its evolution.
- The strategic importance of TPM in achieving operational excellence.
- Understanding the eight pillars of TPM.
- The link between TPM, Lean Manufacturing, and continuous improvement.
- Identifying the six big losses that erode equipment effectiveness.
- Introduction to Overall Equipment Effectiveness (OEE) as a key metric.
- The foundational role of 5S in a TPM environment.

Unit Two: The Core Pillars of Autonomous and Planned Maintenance

- Deep dive into Autonomous Maintenance (Jishu Hozen).
- The seven steps for implementing Autonomous Maintenance.
- Developing operator skills for cleaning, inspection, and lubrication.
- Establishing a robust Planned Maintenance system.
- Moving from reactive to preventive and predictive maintenance strategies.
- Key metrics for tracking Planned Maintenance effectiveness.
- Integrating maintenance and production for seamless operation.

Unit Three: Enhancing Quality and Driving Focused Improvements

- Understanding the principles of Quality Maintenance (Hinshitsu Hozen).
- Analyzing quality issues and their relationship to equipment condition.
- Using tools to achieve and sustain zero-defect production.
- The role of Focused Improvement (Kobetsu Kaizen) in TPM.
- Forming and managing cross-functional improvement teams.
- Applying problem-solving methodologies like Root Cause Analysis (RCA).
- Leveraging data to prioritize and execute improvement projects.

Unit Four: Strategic TPM Implementation and Management

- Developing a master plan and roadmap for TPM implementation.
- Securing management commitment and creating a TPM promotion structure.
- The pillar of Early Equipment Management for new assets.
- Integrating TPM principles into equipment design and procurement.
- The pillar of Training and Education to build workforce capability.
- Developing a skills matrix and training plan for all employees.
- Managing the cultural change required for successful TPM adoption.

Unit Five: Sustaining TPM Excellence and Advanced Concepts

- The pillar of Safety, Health, and Environment in a TPM framework.
- Creating a zero-accident workplace through proactive measures.
- Applying TPM principles to administrative and office functions.
- Conducting TPM audits and assessments for continuous feedback.
- Developing a system for recognition and celebrating TPM success.
- Sustaining TPM momentum for long-term business results.
- The future of TPM and its integration with Industry 4.0 technologies.

FAQ:

Qualifications required for registering to this course?

There are no requirements.

How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

Something to think about:

Beyond calculating OEE as a metric, how can organizations deeply embed the underlying principles of the 'six big losses' into their daily operational culture to drive truly autonomous improvement?

What unique qualities does this course offer compared to other courses?

This course distinguishes itself by focusing on TPM as a comprehensive business strategy rather than merely a set of maintenance tools. While many programs concentrate on the mechanics of calculating OEE or the steps of a 5S event, this training delves into the deeper organizational and cultural dynamics essential for sustainable success. We emphasize the strategic alignment of TPM with core business objectives, ensuring that maintenance efforts directly contribute to profitability, quality, and customer satisfaction. The curriculum is uniquely structured to address the critical human element of change, providing practical guidance on fostering operator ownership, building cross-functional collaboration, and leading a cultural transformation. Instead of just presenting case studies, we facilitate a deep analysis of why certain implementations succeed while others fail, drawing out universal principles that can be adapted to any industrial context. The course provides a strategic blueprint for not just doing TPM, but for becoming a TPM-driven organization where continuous improvement is ingrained in the company's DNA.