



OPTIMIZING MAINTENANCE AND RELIABILITY THROUGH PLANNING AND SCHEDULING TRAINING COURSE

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KUALA LUMPUR

5200 € (PER PERSON)

REF: #INM6000_58927



COURSE INTRODUCTION / OVERVIEW:

In the complex world of asset management, effective maintenance is the backbone of operational excellence. The Optimizing Maintenance and Reliability Through Planning and Scheduling Training Course is meticulously crafted to empower professionals with the knowledge and practical skills needed to transform their maintenance operations from reactive to proactive. This training goes beyond the basics, diving into the core principles of preventive maintenance planning and scheduling, a critical discipline for ensuring equipment longevity and maximizing uptime. Participants will explore the methodologies of proactive maintenance management, including how to develop a robust maintenance strategy and how to use data to inform decisions. The curriculum is informed by leading academic thoughts in the field, drawing on concepts presented by authors like John D. Campbell, a recognized authority on maintenance and reliability engineering. His book, "Uptime: Strategies for Excellence in Maintenance Management," serves as a cornerstone for many of the principles we will explore. By focusing on predictive and preventive approaches, this course helps organizations minimize downtime, reduce operational costs, and enhance overall asset performance. BIG BEN Training Center is proud to offer this comprehensive program, providing a clear path to mastering the intricacies of maintenance planning and scheduling. The training is structured to provide a deep understanding of maintenance optimization, helping participants implement reliable and efficient systems within their organizations.

TARGET AUDIENCE / THIS TRAINING COURSE IS SUITABLE FOR:

- Maintenance and reliability managers.
- Maintenance supervisors and planners.
- Operations and production managers.
- Plant engineers and technicians.
- Asset management professionals.
- Individuals responsible for facility management.
- Supply chain and logistics managers in asset-heavy industries.
- Continuous improvement specialists.
- Professionals are seeking to advance their careers in maintenance planning.

TARGET SECTORS AND INDUSTRIES:

- Oil and gas.
- Manufacturing and production.
- Utilities and energy.
- Transportation and logistics.

- Government agencies and public services.
- Pharmaceuticals.
- Mining and metals.
- Aviation and aerospace.
- Healthcare facilities.
- Food and beverage.
- Chemical processing.
- Pulp and paper.
- Hospitality and real estate management.



TARGET ORGANIZATIONS DEPARTMENTS:

- Maintenance and Engineering.
- Operations and Production.
- Asset Management.
- Facilities Management.
- Supply Chain Management.
- Quality Assurance and Control.
- Health, Safety, and Environment (HSE).
- Finance and Procurement.

COURSE OFFERINGS:

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

- Design and implement a comprehensive preventive maintenance program.
- Create effective maintenance work plans and schedules.
- Utilize key performance indicators (KPIs) to measure maintenance effectiveness.
- Optimize resource allocation for maintenance activities.
- Integrate modern technology and software for maintenance management.
- Forecast future maintenance needs and budget accordingly.
- Reduce equipment downtime and improve asset reliability.
- Conduct a root cause analysis for maintenance failures.
- Develop a proactive culture within maintenance teams.
- Enhance communication between maintenance and operations departments.

COURSE METHODOLOGY:

This course adopts a highly interactive and practical training methodology, designed to ensure participants not only grasp theoretical concepts but also gain the confidence to apply them in their professional roles. The approach is centered around a blend of expert-led lectures, engaging group discussions, and realistic case studies. Participants will work in teams to analyze scenarios from various industries, applying the principles of preventive maintenance planning and



scheduling to solve real-world problems. This collaborative environment fosters peer-to-peer learning and allows for the sharing of diverse experiences and insights. We use a variety of tools and activities, including interactive exercises, simulations, and workshops focused on maintenance planning and scheduling techniques. The curriculum is structured to be hands-on, with opportunities to create maintenance schedules and analyze performance data. The instructor, an expert in the field, provides personalized feedback and guidance throughout the training, ensuring each participant's learning journey is effective. The training materials are comprehensive and serve as a valuable resource for future reference. This methodology ensures that participants from different backgrounds, including maintenance supervisors and plant engineers, can master the practical application of maintenance planning and scheduling. BIG BEN Training Center is committed to providing a dynamic learning experience that translates directly into improved operational performance and increased asset reliability for participants' organizations.

COURSE AGENDA (COURSE UNITS):

UNIT ONE: FUNDAMENTALS OF PROACTIVE MAINTENANCE.

- Understanding the difference between reactive and proactive maintenance.
- The business case for preventive and predictive maintenance.
- Key roles and responsibilities in maintenance planning.
- Establishing a maintenance policy and strategy.
- Metrics and KPIs for maintenance performance.

UNIT TWO: WORK PLANNING AND CONTROL.

- The maintenance work order system and its lifecycle.
- Developing a detailed job plan for maintenance tasks.
- Estimating labor hours, parts, and tools.
- Backlog management and prioritization.
- Integrating safety into maintenance planning.

UNIT THREE: SCHEDULING AND COORDINATION.

- Creating effective weekly and daily schedules.
- Short-term versus long-term scheduling.
- Coordinating with operations and production.
- Managing planned and unplanned interruptions.
- Utilizing a computerized maintenance management system (CMMS) for scheduling.

UNIT FOUR: OPTIMIZING MAINTENANCE PROCESSES.

- Spare parts management and inventory control.
- Reliability-centered maintenance (RCM) principles.
- Root cause analysis (RCA) for equipment failures.
- Integrating condition-based monitoring into a maintenance program.
- Continuous improvement in maintenance operations.

UNIT FIVE: BUILDING A SUSTAINABLE MAINTENANCE CULTURE.

- Effective communication strategies for maintenance teams.
- Training and developing maintenance staff.
- Measuring the return on investment (ROI) of a maintenance program.
- Benchmarking maintenance performance.
- Case studies and future trends in asset reliability.



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:

How can predictive maintenance, powered by new technologies, redefine the role of a maintenance planner from a scheduler of tasks to a strategic asset manager?

WHAT UNIQUE QUALITIES DOES THIS COURSE OFFER COMPARED TO OTHER COURSES?

This course stands out by providing a holistic and deeply practical approach to maintenance planning and scheduling. It goes beyond simple theory, focusing on the real-world application of concepts that drive significant improvements in asset reliability and operational efficiency. Instead of just listing tools, we provide a framework for strategic thinking, helping participants understand how to build a proactive maintenance culture within their organization. The curriculum is built on proven methodologies, and we use compelling case studies that illustrate how these principles work in various industrial settings. We explore key aspects like work order management, resource optimization, and the effective use of a computerized maintenance management system (CMMS). Participants will learn not only what to do but also why it's the best approach, backed by an understanding of metrics like mean time to repair (MTTR) and overall equipment effectiveness (OEE). The training is not just about completing tasks; it's about making a tangible impact on a company's bottom line by reducing downtime and maximizing asset lifespan. By blending academic rigor with hands-on, practical examples, this course provides the comprehensive skills needed for maintenance supervisors and planners to become true leaders in their field. The focus is on implementing sustainable changes that lead to long-term success.