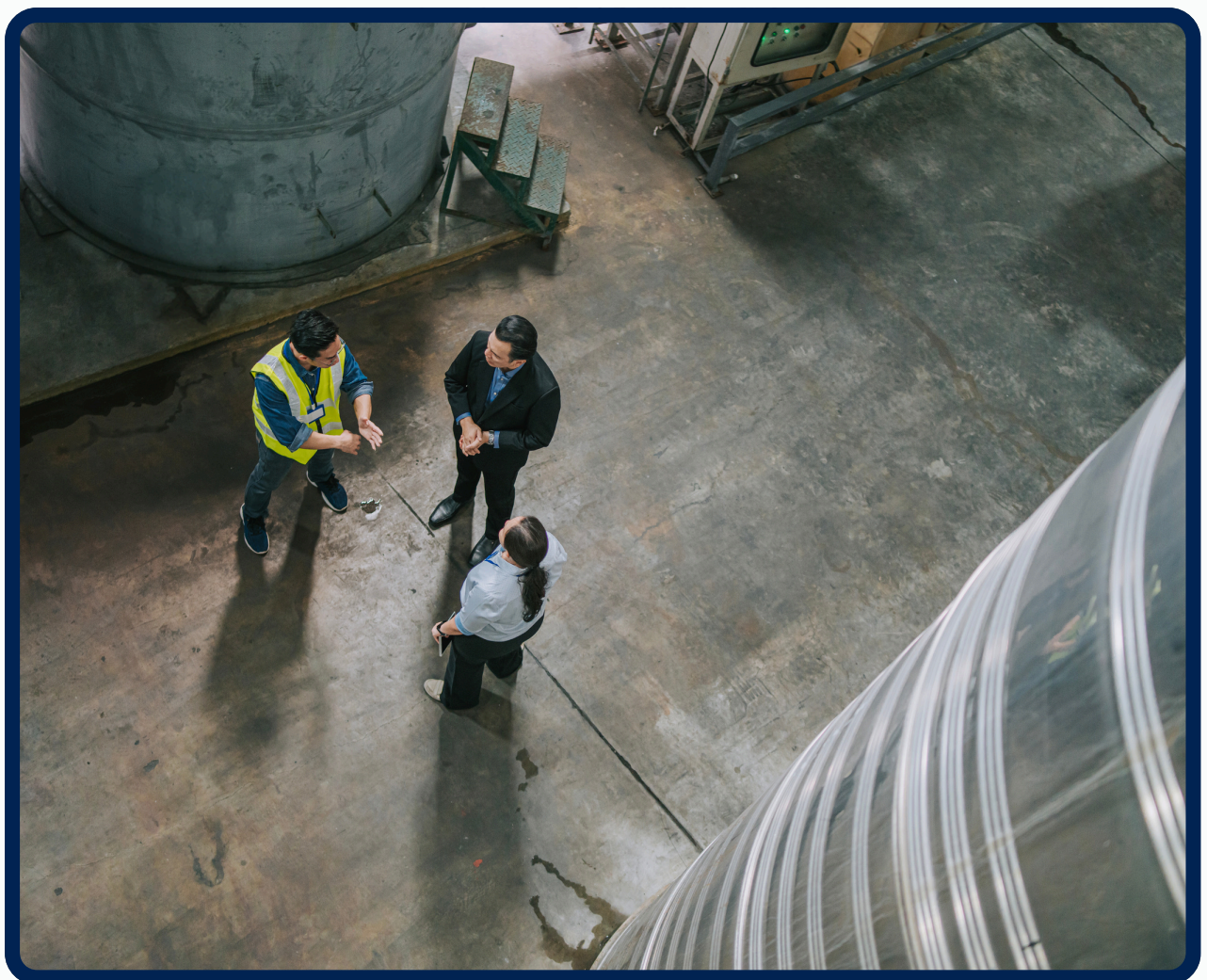


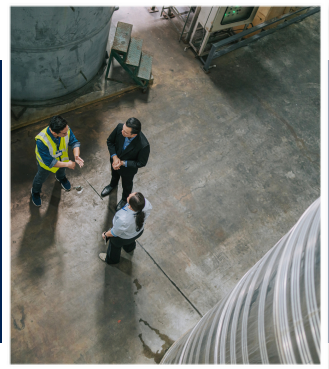
BOILER OPERATIONS, MAINTENANCE & STEAM MANAGEMENT OPTIMIZATION



OUR ACCREDITATION & PARTNERS



BOILER OPERATIONS, MAINTENANCE & STEAM MANAGEMENT OPTIMIZATION



OVERALL DESCRIPTION:

The true cost of an underperforming boiler system extends far beyond a single repair bill—it drains your budget through excess fuel consumption, risks employee safety, and jeopardizes your operational continuity. In a demanding market, treating your steam systems as a liability rather than an asset is a strategic misstep you can't afford. This program is your blueprint for transforming boiler management from a reactive, cost-center task into a proactive, profit-enhancing discipline that drives efficiency and secures your plant's future.

Course Objectives:

Upon completion of this course, participants will have the knowledge and skills to:

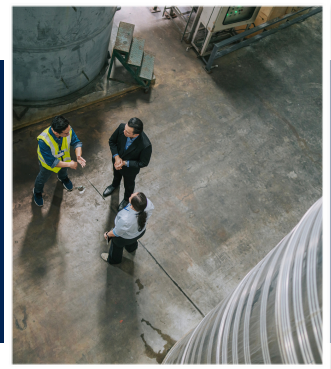
- **Optimize** boiler system performance to significantly reduce fuel consumption and operational costs.
- **Implement** effective preventive and predictive maintenance programs that minimize downtime and extend equipment life.
- **Diagnose** and troubleshoot common boiler and steam system failures with speed and accuracy.
- **Apply** best practices in water treatment, fuel combustion, and heat recovery to improve efficiency and reduce environmental impact.
- **Develop** a proactive safety culture and ensure full compliance with industry regulations and standards.

Course Outline:

- **Foundational Principles & Strategic Operations**
 - Boiler and steam system fundamentals.
 - Combustion principles and efficiency analysis.
 - Startup, shutdown, and emergency procedures.



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Course Outline:

- **Proactive Maintenance Strategies**
 - Developing a preventive maintenance schedule.
 - Inspection techniques and condition monitoring.
 - Boiler system components and their maintenance needs.
- **Advanced Optimization & Energy Management**
 - Steam trap management and condensate return systems.
 - Water treatment best practices and blowdown optimization.
 - Heat recovery and waste energy utilization.
- **Troubleshooting & Risk Mitigation**
 - Root cause analysis for common boiler failures.
 - Safety device inspection and testing.
 - Regulatory compliance and best-in-class safety protocols.

WHO SHOULD ATTEND?

This course is essential for anyone involved in the operation, maintenance, or management of boiler and steam systems. It is ideal for:

- Boiler Operators and Technicians
- Maintenance Engineers and Supervisors
- Plant Engineers and Managers
- Facility Managers
- Energy and Utility Supervisors
- Health, Safety, and Environmental Officers

Course Methodology:

We utilize a variety of proven adult learning techniques to ensure maximum understanding, comprehension and retention of the information presented. This training course will be conducted as a highly interactive workshop session. A variety of training methodologies will be used Before and during the course whenever applicable. Some of these methods are gamification, online pre-post test, role plays, self-assessment instruments, group exercises & case studies.

