

POWER GENERATION PLANT PERFORMANCE GAP ANALYSIS & OPTIMIZATION

"Identify, analyze, and close performance gaps to maximize plant output and efficiency."

Schedule

Date	Venue	Fees (Face-to-Face)
13 - 17 Jul 2026	Singapore	USD 3495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

Performance gaps in power generation plants can quietly erode efficiency, increase costs, and limit competitiveness. This 5-day intensive course empowers professionals to systematically identify, analyze, and optimize performance shortfalls across plant systems. Combining proven methodologies with hands-on tools, the program equips participants with the skills to drive measurable improvements and deliver lasting operational gains.

Objectives

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

- Understand the concept and impact of performance gaps.
- Apply analytical tools to detect underperformance across key systems.
- Develop corrective action plans for system and process improvements.
- Enhance plant reliability, efficiency, and cost-effectiveness.
- Implement continuous improvement practices for long-term success.

Why Attend

- Learn structured methods to diagnose performance issues.
- Gain practical insights into system-level and plant-wide optimization.
- Improve maintenance and operational decision-making.
- Reduce unnecessary energy consumption and operational waste.
- Enhance compliance with environmental and efficiency standards.

Target Audience

This program is designed for:

- Plant engineers and technical supervisors.
- Performance and reliability engineers.
- Maintenance managers and team leads.
- Energy analysts and operations specialists.
- Project managers responsible for plant improvements.

Individual Benefits

Key competencies that will be developed include:

- Strong diagnostic and analytical skills for performance gaps.
- Ability to develop and prioritize corrective actions.
- Understanding of optimization techniques across plant systems.
- Enhanced ability to lead improvement initiatives.
- Familiarity with best practices and industry benchmarks.

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved overall plant performance and efficiency.
- Reduced downtime and maintenance-related losses.
- Optimized use of energy, materials, and labor.
- Stronger alignment with operational goals and KPIs.
- Greater capacity to achieve continuous improvement objectives.

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Expert Presentations – In-depth briefings on gap analysis frameworks.
- Practical Exercises – Applying analysis tools to real-world scenarios.
- Case Studies – Success stories from leading power plants.
- Interactive Discussions – Sharing experiences and best practices.
- Action Planning Workshops – Crafting tailored optimization roadmaps.

Course Outline

Training Hours: 8:30 AM – 4:30 PM **Daily Format:** 3–4 Learning Modules | Coffee Breaks: 10:00 & 3:00 | Lunch Buffet: 12:30 – 1:30

Day 1: Understanding Performance Gaps

- Module 1: Introduction to performance management (08:30 – 10:30)
- Module 2: Identifying key performance indicators (10:45 – 12:45)

Day 2: Diagnostic Tools & Techniques

- Module 3: Performance data analysis (08:30 – 10:30)
- Module 4: System diagnostics and benchmarking (10:45 – 12:45)

Day 3: Root Cause Analysis

- Module 5: Root cause investigation methods (08:30 – 10:30)
- Module 6: Prioritizing improvement areas (10:45 – 12:45)

Day 4: Optimization Strategies

- Module 7: Maintenance and operations improvements (08:30 – 10:30)
- Module 8: Technology and process upgrades (10:45 – 12:45)

Day 5: Action Planning & Continuous Improvement

- Module 9: Developing an optimization roadmap (08:30 – 10:30)
- Module 10: Embedding continuous improvement culture (10:45 – 12:45)

Certification

Participants will receive a Certificate of Completion in Power Generation Plant Performance Gap Analysis & Optimization, recognizing their expertise in driving measurable performance improvements.

Why Choose MAWA Events

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