



*Training Course:
Enhancing CCPP Performance*

*11 - 15 October 2026
Dubai (UAE)*

Training Course: Enhancing CCGP Performance

Training Course code: SC235667 From: 11 - 15 October 2026 Venue: Dubai (UAE) - Training Course Fees: 5390 € Euro

Introduction

The "Enhancing CCGP Combined Cycle Power Plant Performance" training program, developed by Global Horizon Training Center, is tailored to empower professionals in the energy sector with the essential skills and knowledge to optimize the performance of Combined Cycle Power Plants. By focusing on key concepts like Brayton and Rankine cycles, psychrometrics, and heat rate efficiency, this course bridges theoretical foundations with practical applications to maximize plant efficiency and reliability. Participants will gain actionable insights to tackle modern power generation challenges, making them indispensable assets to their organizations.

Objectives

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

- Understand and describe the Brayton and Rankine cycles, including performance parameters.
- Use tools like the Psychrometric Chart and Mollier Diagram for performance analysis.
- Analyze GT Gas Turbine and HRSG Heat Recovery Steam Generator efficiency, including heat rate calculations.
- Apply vendor correction curves to assess and enhance equipment performance.
- Optimize combined cycle plant operations through improved start-up, operation, and shutdown processes.
- Implement strategies to minimize operator-controllable losses and maximize plant output.

Target Audience

This course is ideal for:

- Power plant engineers and operators.
- Maintenance and reliability professionals.
- Plant supervisors and managers.
- Performance analysts and energy consultants.
- Any technical staff involved in CCGP operations and maintenance.

Outline

Day 1: Introduction to Combined Cycle Power Plants

- Overview of Combined Cycle Power Plants CCPP
- Understanding Brayton and Rankine Cycles
- Key performance parameters in CCPP
- Introduction to the Psychrometric Chart and Mollier Diagram

Day 2: Gas Turbine GT Performance Analysis

- GT simple cycle heat rate and efficiency calculations
- Vendor correction curves and their application
- Analyzing GT output under varying conditions
- GT compressor section: isentropic efficiency

Day 3: Heat Recovery Steam Generator HRSG Efficiency

- HRSG efficiency, effectiveness, and capacity
- Input-Output and Thermal Loss Methods for efficiency calculations
- Pinch Point, Approach Temperature, and their impact on performance
- Optimizing HRSG operations

Day 4: Steam Turbine ST Cycle Optimization

- Impact of combined cycle parameters on STG cycle heat rate
- Operator-controllable losses and strategies for reduction
- Using Mollier Diagram for analyzing ST performance
- Calculating ST cycle heat rate and performance metrics

Day 5: Plant Performance Optimization and Operations

- Optimizing combined cycle plant performance: strategies and tools
- Vendor correction curves for CCPP output analysis
- Typical start-up, operation, and shutdown procedures for CCPP

- Case studies and hands-on activities for performance optimization

Registration form on the Training Course: Enhancing CCPP Performance

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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