



*Training Course:
Scheduling and Yield Optimization*

*16 - 27 August 2026
Dubai (UAE)*

Training Course: Scheduling and Yield Optimization

Training Course code: EN6060 From: 16 - 27 August 2026 Venue: Dubai (UAE) - Training Course Fees: 9240 € Euro

Introduction

Effective scheduling and yield optimization are critical for maximizing operational efficiency, minimizing downtime, and improving profitability in industries such as oil & gas, manufacturing, and process operations. Advanced planning and optimization techniques enable organizations to manage constraints, enhance production output, and make data-driven decisions.

This program, designed by Global Horizon Training Center, provides a comprehensive 10-day training that equips participants with advanced methodologies, analytical tools, and practical skills to optimize scheduling and production yield in complex operational environments.

Course Objectives

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

- Develop advanced scheduling models and strategies
- Optimize resource allocation and production planning
- Analyze constraints and bottlenecks in operations
- Apply yield optimization techniques to improve efficiency
- Utilize data analytics and optimization tools
- Perform scenario analysis and simulation
- Integrate scheduling with operational and supply chain processes
- Enhance decision-making and operational performance

Target Audience

This program is designed for:

- Planning and Scheduling Engineers
- Production and Operations Engineers
- Supply Chain and Logistics Professionals
- Process Engineers in industrial sectors
- Oil & Gas and Manufacturing Professionals
- Analysts involved in optimization and performance improvement

Outline

Day 1: Fundamentals of Scheduling and Planning

- Introduction to scheduling concepts
- Types of scheduling production, maintenance, supply chain
- Constraints and dependencies
- KPIs and performance metrics
- Overview of optimization

Day 2: Advanced Scheduling Techniques

- Resource allocation and leveling
- Critical Path Method CPM
- Gantt charts and timeline optimization
- Handling uncertainties
- Integration with operations

Day 3: Production Planning and Control

- Demand forecasting basics
- Production planning strategies
- Capacity planning
- Inventory considerations
- Planning under constraints

Day 4: Yield Optimization Fundamentals

- Understanding yield and efficiency
- Factors affecting yield
- Process variability and losses
- Yield measurement techniques
- Improvement opportunities

Day 5: Process Optimization Techniques

- Lean and Six Sigma concepts
- Bottleneck analysis
- Continuous improvement methods
- Waste reduction strategies
- Performance metrics

Day 6: Data Analysis and Modeling

- Data collection and validation
- Statistical analysis for operations
- Excel and basic modeling tools
- Data visualization
- Decision support

Day 7: Optimization Tools and Simulation

- Optimization models linear programming basics
- Scenario analysis and simulation

- Software tools for optimization
- Sensitivity analysis
- Risk considerations

Day 8: Integration with Supply Chain and Operations

- Linking scheduling with supply chain
- Logistics and distribution planning
- Coordination across departments
- Real-time decision-making
- Digital tools and automation

Day 9: Performance Monitoring and Improvement

- KPI tracking and dashboards
- Performance benchmarking
- Continuous improvement strategies
- Change management
- Best practices

Day 10: Case Studies and Practical Applications

- Real-world scheduling and optimization cases
- Problem-solving workshops
- Lessons learned
- Strategy development
- Final assessment and review

Registration form on the Training Course: Scheduling and Yield Optimization

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