



*Training Course:
Analytical Production Data Management*

*16 - 20 May 2027
Cairo (Egypt)*

Training Course: Analytical Production Data Management

Training Course code: EN235410 From: 16 - 20 May 2027 Venue: Cairo (Egypt) - Training Course Fees: 4410 € Euro

Introduction

Effective management and analysis of production data are essential for optimizing performance, improving decision-making, and enhancing operational efficiency in industrial environments. In sectors such as oil & gas, manufacturing, and energy, data-driven insights enable organizations to monitor processes, identify inefficiencies, and drive continuous improvement.

This program, designed by Global Horizon Training Center, equips participants with the analytical tools, methodologies, and practical techniques required to manage, analyze, and interpret production data for strategic and operational excellence.

Course Objectives

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

- Understand the role of data management in production environments
- Collect, organize, and validate production data effectively
- Apply analytical techniques to interpret operational data
- Identify trends, anomalies, and performance gaps
- Utilize data visualization tools for reporting and decision-making
- Improve production efficiency through data-driven insights
- Ensure data quality, integrity, and governance
- Support strategic planning using production analytics

Target Audience

This program is designed for:

- Production and Operations Engineers
- Data Analysts in industrial and energy sectors
- Process Engineers and Performance Analysts
- Maintenance and Reliability Engineers
- Supervisors and Managers responsible for operational performance
- Professionals involved in reporting, analytics, and decision support

Outline

Day 1: Fundamentals of Production Data Management

- Introduction to production data and its importance
- Types of production data operational, process, performance
- Data sources and collection methods
- Data quality, validation, and cleansing
- Data management frameworks and best practices

Day 2: Data Analysis Techniques and Tools

- Descriptive and diagnostic analytics
- Statistical analysis fundamentals
- Data aggregation and trend analysis
- Introduction to analytical tools Excel, Power BI
- Data visualization principles

Day 3: Performance Monitoring and KPI Analysis

- Defining and measuring KPIs in production
- Benchmarking and performance evaluation
- Identifying inefficiencies and bottlenecks
- Root cause analysis using data
- Reporting and dashboard development

Day 4: Advanced Analytics and Optimization

- Predictive analytics and forecasting basics
- Data modeling techniques
- Process optimization using analytics
- Integration with SCADA and production systems
- Decision support systems

Day 5: Data Governance, Integration, and Case Studies

- Data governance and data security
- Integrating data across systems and departments
- Reporting for management and stakeholders
- Continuous improvement using data insights
- Case studies and real-world applications

Registration form on the Training Course: Analytical Production Data Management

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