

Business Analytics and Decision Intelligence for Manufacturing

COURSE OVERVIEW

This course explores advanced analytics, artificial intelligence, and decision intelligence frameworks and its ability to optimize operations, improve production quality, reduce downtime and drive strategic business outcomes. It equips participants with the knowledge and tools to harness data driven insights for smarter, faster, and more efficient manufacturing decisions. Through case studies, practical exercises and interactive simulations, participants will learn how to integrate analytics into manufacturing workflows, enhance predictive capabilities and create value across the production lifecycle.

WHO SHOULD ATTEND?

This course is designed for manufacturing professionals, operations managers, process engineers, data analysts, business strategists and decision makers who aim to strengthen their analytical capabilities and apply intelligent decision-making tools to improve manufacturing performance and competitiveness.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Understand the principles of business analytics and decision intelligence in the manufacturing context.
- Apply data analytics tools to optimize production processes and supply chain operations.
- Develop predictive and prescriptive models for improved decision-making.
- Leverage real-time data and AI-driven insights to enhance productivity and reduce inefficiencies.
- Design data-informed strategies for continuous improvement and innovation.
- Integrate analytics-driven frameworks to align manufacturing performance with strategic business goals.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- How business analytics drives cost savings and better decision-making in manufacturing.
- Techniques for predictive maintenance to prevent equipment failures.
- Using data to optimize demand forecasting and inventory management.
- Approaches to improve product quality and reduce defects through analytics.
- Leveraging analytics for supply chain efficiency and risk management.
- How decision intelligence supports real-time operational insights and strategic planning.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded