

Predictive Analytics and Inventory Management Systems

COURSE OVERVIEW

Predictive Analytics and Inventory Management Systems is a focused course that examines how predictive analytics uses historical data, machine learning models, and statistical techniques to anticipate market trends, customer demand, and supply chain disruptions. The course has been designed to equip supply chain and inventory professionals with advanced analytical skills to forecast demand accurately and optimize inventory levels efficiently. Participants will explore inventory management best practices supported by data-driven insights, enabling them to reduce stockouts, minimize carrying costs, and improve overall supply chain responsiveness and profitability.

WHO SHOULD ATTEND?

This course is ideal for inventory managers, supply chain analysts, demand planners, logistics coordinators, procurement professionals, and data analysts who aim to enhance inventory control through predictive analytics. It also benefits business managers and IT professionals involved in designing, implementing, or improving inventory management systems within organizations.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Understand the principles and techniques of predictive analytics in inventory management.
- Use data-driven models to forecast demand and identify inventory needs accurately.
- Optimize inventory levels to balance service levels and cost efficiency.
- Implement advanced inventory management systems integrated with predictive analytics tools.
- Analyze inventory performance using key metrics and data visualization techniques.
- Address common challenges in inventory forecasting and control.
- Communicate predictive analytics insights effectively to stakeholders for informed decision-making.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- Fundamentals of predictive analytics and its application in inventory management.
- Machine learning models and statistical methods for demand forecasting.
- Techniques for inventory optimization and replenishment planning.
- Integration of predictive analytics with inventory management software.
- Case studies demonstrating improvements in inventory accuracy and efficiency.
- Tools for data analysis, visualization, and performance measurement.
- Strategies for overcoming forecasting errors and supply chain uncertainties.
- Practical exercises using real-world data to develop predictive models.

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