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MULTIMIX ACADEMY
- Competence-based learning Solutions -

CERTIFIED IN SUPPLY CHAIN ANALYST (CSCA)

[TUTION & EXAM]
N200,000

Supply Chain Analytics is an emerging and exciting area in high demand. It has the power to completely transform any business, especially in the manufacturing, automotive, oil & gas, telecoms, retail, fast moving consumer goods (FMCG) etc. It encompasses virtually the complete value chain: sourcing, manufacturing, distribution and logistics. End-to-end visibility of supply chain performance across multiple functions and disciplines reveals previously unseen trends and drives better decisions. Dashboards and scorecards provide this insight, elevating supply chain priority to C-level decision-makers.

Supply chain analytics lets you make sense of the data in your supply chain, so you can make better decisions. Applying analytics to the supply chain is still relatively new. As the technologies for intelligent analysis and data visualization explode, it is a great time to look at what your business can achieve through a comprehensive supply chain analytics strategy.

This course takes participants on a journey to this fascinating area where supply chain management meets data analytics. You will learn real life examples on how analytics can be applied to various domains of a supply chain, from selling, to logistics, production and sourcing, to generate a significant social / economic impact.

Supply Chain Analytics transforms supply chain activities from guessing, to ones that m akes decision using data. According to Deloitte, 79% of organizations with high performing supply chains achieve revenue growth that is significantly above average. This course will show you how to formulate and answer Supply Chain optimization questions such as where a production facility should be located, how to allocate production demand across different facilities, and more. We will explore the results of the models and their implications through sensitivity and simulation testing

What You Will Learn

- Types of analytics (descriptive, diagnostic, predictive, and p r esc ri p ti v e) and the relationships between them
- The role of analytics in supply chain management (SCM)
- Preprocessing (cleaning and integrating) data as it relates to SCM
- How to conduct exploratory data analysis on supply chain data
- How to identify and analyze Key Performance Indicators (KPIs) of SCM
- Understand how to solve analytical problems in real-world scenarios
- Define effective objectives for analytics projects
- Work with different types of data
- Utilize charts, graphs, and tools used for analytics and use them to gain valuable insights

At the end of the course, active participants will be able to:

- Discuss the most relevant planning challenges across the strategic, tactical, and operational levels of supply chains.
- Explain the difference between analytics types, the links between them, and how to best use them to improve SCM processes.
- Use KPIs to find causes of underperformance in supply chains and to plan for analytics projects that will address strategic SCM goals.
- Understand the importance of data visualization to drive more effective business decisions and ROI
- Explain the role and applications of Descriptive Analytics in a Supply Chain
- Explain the role and applications of Predictive Analytics in a Supply Chain
- Explain the role and applications of Prescriptive Analytics in a Supply Chain

MODULES

COURSE SECTION	SECTION DETAILS
Agile & Sustainable Supply Chain Management	• *End to End Supply Chain (The SCOR Model)* • *Supply Chain Performance Metrics* • *Optimizing Supply Chains* • *Performance Improvement Initiatives* • *Team Dynamics & Collaboration* • *Comparative Advantage & Sustainability*
Supply Chain Analytics with Excel	• *Refresher on Excel Tips and Tricks* • *Statistical Tools using Data Analysis* • *Graphical representation of Data* • *Forecasting using Statistical Regression* • *Classification of Inventory* • *Economic Order Quantity calculation* • *Inventory Safety Stocks computation* • *Decision Models using the Solver Add-In Optimizer* *Case Study Example in Supply Chain Management*
Data Mining and Analytics	• *Data Analytics Overview* • *Dealing with Different Types of Data* • *Data Visualization for Decision making* • *Data Science Data Analytics and Machine Learning* • *Data Science Methodology* • *Data Analytics in Different Sectors* *Analytics Framework and Latest trends*
AI, Big Data & Machine learning	• *Data Science* • *Artificial Intelligence* • *Machine Learning* *Deep Learning*
Supply Chain 4.0	• *Digitization in Supply Chains* • *Technologies for Optimizing Physical Logistics* • *The Impact of Supply Chain* • *4.0 on Firms/Workers* • *Transforming the Operation of Global Value Chains* • *Integrated Supply Chain Ecosystem* • *Smart Logistics and the Warehouse of the Future* • *How it impacts Consumers Managing the Transformation*

Duration: 6 Saturdays

Mode of Learning: Online

Who should attend: CITLS & GCLSCM Alumni, Supply chain and logistics Industry practitioners with at least two years of experience.

FOR ENQUIRIES, PLEASE CONTACT:
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