



**Enterprise Planning and Analytics: Way forward in Supply Chain
Management**
Industry Integrated Certification Course

8/7/2020

LLOYD BUSINESS SCHOOL

In Collaboration with Training Partner 'V3 Solutions'



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Enterprise Planning and Analytics: Way forward in Supply Chain Management (EPA-SCM)

About Course

Supply Chain Management has emerged one of the most enterprising and promising business function which aims at cost optimization and value multiplication. By orienting themselves in to customer relationships and better procurement management Supply Chain can act as a strategic competitor advantage. This course focuses on understanding to supply chain management process – by delivering the right product in the right quantity to the right place at the right time!

The course will focus on understanding and analyzing the components of effective supply chain management functions. The discussions will be focused on end-to-end analysis of supply chains and will include issues related to strategy, design, coordination, sustainability, planning & execution of supply management. It seeks to develop excellence in enterprise resource planning ERP, through SAP. Also supply chain analytics with tools and concepts related to managing and improving supply chains have been detailed for seeking operational excellence in supply chain. Current areas like artificial intelligence and block chain as upcoming areas of future propensity in supply chain have been discussed as well.

This course aims to:

- Help the participants understand global supply chain.
- Familiarize the participants with the opportunities and threats of Supply Chain Management (SCM)
- Discuss Enterprise Resource Planning (ERP) tool in SCM
- Help the participants understand \supply chain analytics and its applications.
- Enable participants to understand AI and Block Chain, future of SCM.

Who can attend?

- Students who would like to pursue a expert course in Supply Chain.
- Managers who want to gain a comprehensive understanding of new age SCM.
- Young executives aspiring to enter and grow their careers in the Supply Chain domain
- Academicians who are keen to further expertise in digital SCM.

Detailed Course

Course : Supply Chain Enterprise Planning and Analytics		Areas	Delivery Hours
Module 1: Fundamentals of Supply Chain			5rs
1.1 Introduction to Supply Chain	<ol style="list-style-type: none">1. Basic understanding of SCM2. Scope of Supply Chain in Industry3. Supply Chain Vs Logistics4. Opportunities and Threats		2hrs
1.2 Introduction to Supply Chain Model	<ol style="list-style-type: none">1. Modelling in Supply Chain2. Core Processes in Supply Chain Management3. Mapping IT in SCM		3hrs
Module 2 Introduction to Enterprise Planning (ERP)			10hrs
2.1 Introduction to ERP	<ol style="list-style-type: none">1. Introduction to ERP2. Components of ERP3. SAP ERP 6.0 with Enhancement Package		2hrs
2.2 Basics in SAP-ERP	<ol style="list-style-type: none">1. Planning2. Execution3. Visibility4. Collaboration5. SAP Supply Chain Management Functionality		2hrs

2.3 ERP SCM- Planning	<ol style="list-style-type: none"> 1. Modelling in Supply Chain 2. Demand forecasting and planning 3. Production Planning 4. Outlining Scheduling 	2hrs
2.4 ERP SCM- Execution	<ol style="list-style-type: none"> 1. Procurement 2. Outlining the Sales and Distribution (S&D) 3. Logistics Execution (LE) Applications 	2hrs
2.5 Supplier Relationship Management	<ol style="list-style-type: none"> 1. CRM and its scope in SCM 2. CRM in SCM ERP Module 	2hrs
Module 3 Analytics in SCM :Fundamentals		5hrs
3.1 Introduction to Data Science	<ol style="list-style-type: none"> 1. Data Science and its meaning 2. Applications of Data Science 3. Scope of Data Science 4. Data science tools and methodologies 	2hrs
3.2 Introduction to Data and Structures	<ol style="list-style-type: none"> 1. Data and types 2. Data warehouses and architecture 	3hrs
4.Using R for SCM –Planning and Scheduling		10hrs
4.1 Data Analysis with R for Production Planning and Scheduling	<ol style="list-style-type: none"> 1. R and Relational Databases 2. Connecting to Relational Databases using RJDBC and RODBC 3. Database Design and Querying Data 4. Modifying Data and Using Stored Procedures 5. In-Database Analytics with R 	
(Projects and cases)		
Module 5 Data Visualization with IBM Cognos		5hrs

5.1 Data Visualization using Tool (Demand Analytics Customer Analytics)	<ol style="list-style-type: none"> 1. Introduction to IBM Cognos as visualization tool 2. Dashboards 3. Exploration 4. Formatting and basic calculations 5. Conditional formatting 6. Creation of queries and filters 7. Prompt creation <p>7. Graphs and visual tools</p> <p>(Projects and cases)</p>	5hrs
Module 5 AI in Supply Chain		3hrs
Module 5 Basics in AI	<ol style="list-style-type: none"> 1. Supervised, Unsupervised, Reinforcements 2. Models in AI for Clustering and Classification 3. Chat-bot development 	
Module 6 Block Chain in Supply Chain management	Application of Block Chain in SCM	2hrs
TOTAL		40hrs

Learning Outcomes

- Develop a sound understanding of the important role of supply chain management in current business developments.
- Become familiar with current supply chain management trends and applications of ERP-tool.
- Learn to use and apply computer-based supply chain optimization tools including the use of selected state of the art supply chain software suites currently used in business
- Applications of AI, Analytics and Block Chain in Supply Chain Management.

References

1. Enterprise Resource Planning 1st Edition by Mary Sumne
2. ERP: Making It Happen: The Implementers' Guide to Success with Enterprise Resource Planning by Thomas F. Wallace.
3. Integrated Business Processes with ERP system by Simha R. Magal
4. ERP and Supply Chain By Christian by Ndubisi Madu, Chu-hua Kuei

Websites

<https://www.oracle.com/applications/erp/what-is-erp.html>

https://www.tutorialspoint.com/sap/sap_introduction.htm

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