Supply Chain Risk Management
How to Manage Operational and Disruptive Risks and Tame the Uncertainty in Supply Chain

07 - 11 Jun 2020, Dubai
20 - 24 Dec 2020, Dubai
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Introduction

The Supply Chains have become the multi-structural dynamic systems vulnerable to disruptions with a significant impact on entities business and performance. In modern times, supply chain risk management is used to identify the potential sources of risks, their possible influences and propagation through the supply chain as well as to plan and implement appropriate actions in order to remove, reduce or mitigate supply chain disruptions.

Managing risk has become a crucial challenge for supply chain managers due to growing global competition, rising cost pressures, increasing customer expectations, geopolitics and ever-increasing complexity.

In supply chain design, planning and optimization, we need to take uncertainty and risk into account as we develop decision-oriented solutions. In order to consider possible impact of operational risks and disruptive risks, use of dynamic simulation methods and software is almost mandatory.

This GLOMACS training seminar on Supply Chain Risk Management will highlight:

• How to develop analytical and management skills to analyze bullwhip and ripple effects
• Need for technical skills on batching, ordering rules and events
• Performing variation and comparison experiments in AnyLogistix dynamic simulation software
• Major trade-offs in supply chain risk management
• Planning and avoidance of major Supply Chain disruptions by identifying risk and recovery

Objectives

At the end of this GLOMACS training seminar, delegates will learn to:

• Identify the dynamic structure of Supply Chain
• Use AnyLogistix software
• Incorporate dynamic simulation modeling in risk identification
• Plan for uncertainty and reduce impact of disturbances in Supply Chain
• Recover fast from the unwanted events
• Incorporate geopolitics into Supply Chain optimization

Training Methodology

This GLOMACS Purchasing & Logistics training seminar on Supply Chain Risk Management uses a hands-on approach. The delegates will be provided with a Personal Learning Edition of the anyLogistix software and will be walked through the examples of using the software for Supply Chain risk management, optimization and recovery planning.

Delegates will use AnyLogic and anyLogistix software to prepare dynamic simulation models from which they will identify the possible causes of disruptions and use modern techniques of risk assessments, and prepare measures to remove reduce or repair negative influences.

The delegates will create simulation models based on the actual examples from the industry, either form the sources available from AnyLogic or anyLogistix models or the available sources within their own industry.

Organisational Impact

Complexity management and system modeling is now a basis for handling uncertainty in supply chains. A particular feature of risk management in supply chains (unlike in technical systems) is that people do not strive for a 100% guarantee of the result; they consciously tend to take risks. Therefore, organizations need people that can provide the system with resiliency, flexibility in sourcing, supply chain visibility, adaptability and resilience, prepared to mitigate the emerging risks and recover from disturbances in the supply chain.

From this GLOMACS training seminar, organizations can expect to benefit by their employees learning:

• The use of dynamic simulation tools for supply chain risk identification and influence measurement
• Dynamic control of the actual risks and mitigation measures for their supply chains
• Understand Redundancy, Robustness, Stability, Flexibility, Resilience
• Preparing a performance and recovery analysis framework
• How to identify ripple and bullwhip effects in virtual world through simulations

Personal Impact

Delegates will learn how to use the full strength of modern technologies and dynamic simulation tools to create efficient, optimized, flexible, resilient and effective supply chain. Specifically, delegates will acquire:

• The structured knowledge of Supply Chain and Logistics dynamics and risk identification
• Knowledge on risks in the Supply Chains of modern age, like IT risks
• Simulation techniques, advantages and limitations
• Step-by-step process of Supply Chain risk simulation and recovery measures prioritization
• The way to tackle the risks through simulated experiments
• Use of anyLogistix and AnyLogic dynamic simulation software

Who Should Attend?

This GLOMACS Purchasing & Logistics training seminar on Supply Chain Risk Management has been designed for any professionals within Supply Chain and Logistics, production, business analytics, service provision etc. The dynamic simulation techniques are applicable for multiple industries, and the range of application is ever-expanding as the data becomes more and more accessible, and therefore professionals from many disciplines can attend this GLOMACS training course.

This GLOMACS training course is suitable to a wide range of professionals from Supply Chain and Logistics industry but will greatly benefit:

• Risk Managers
• Supply Chain Managers
• Operation Managers
• Project Managers
• Finance Managers
• IT Managers
• Plant Managers
• Production Planners
• HR Managers
• Logistics Managers
• Business Improvement Specialists
• Consultants
DAY 1

Structural Dynamics and Supply Chains

• Supply Chain Structure Dynamics Control Problem
• Dynamic Model of Supply Chain Structural Dynamics Control Processes
• Uncertainty and Risks
• Introduction to anyLogic Dynamic Simulation Modelling Software
• Introduction to anyLogistix Supply Chain Modelling Software

DAY 2

Risk Management in the Supply Chain

• Framework of Risk Control
• Operational Risks
• Disruption Risks
• Bullwhip Effect

DAY 3

Supply Chain Resilience

• Ripple Effect
  • Mitigation Strategies for Ripple Effect
• Supply Chain and Operations Disruption Management Framework
• Supply Chain Resilience Framework
• Exercise: Modeling Ripple Effect and its Mitigation with anyLogistix
• Models and Algorithms of Supply Chain Reconfiguration

DAY 4

Structural Dynamic Methods in Supply Chain Risk Management

• Linear and Mixed-Integer Programming Optimization
• Stochastic Programming Fuzzy Logic and Robust Optimization
• Pricing and Game Theory Application in Supply Chain Risk Management
• Simulation: Process, Agent and Dynamic

DAY 5

Supply Chain 4.0 and IT Risks for Supply Chain Management

• Industry 4.0 as a New Driver for Supply Chain Structural Dynamics
• IT Risks and Cyber Risks: Real Threats for All Supply Chains
• Managing IT and Cyber Risks in Supply Chains: A Practical Framework
• Adaptive Supply Chain Management Framework
• Flexible Supply Chain Structural Configuration
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<tr>
<th>Code</th>
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<tr>
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<td>07 - 11 Jun 2020</td>
<td>Dubai - UAE</td>
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TERMS AND CONDITIONS
- Fees – Each fee is inclusive of Documentation, Lunch and refreshments served during the entire seminar.
- Mode of Payment – The delegate has the option to pay the course fee directly or request to send an invoice to his/her company/sponsor. Credit card and cheque payments are both acceptable.
- Cancellation / Substitution – Request for seminar cancellation must be made in writing & received three (3) weeks prior to the seminar date. A US$ 250.00 processing fee will be charged per delegate for each cancellation. Thereafter, we regret that we are unable to refund any fees due, although in such cases we would be happy to welcome a colleague who would substitute for you.
- Hotel Accommodation – is not included in the course fee. A reduced corporate rate and a limited number of rooms may be available for attendees wishing to stay at the hotel venue. Requests for hotel reservations should be made at least three (3) weeks prior to the commencement of the seminar. All hotel accommodation is strictly subject to availability and terms and conditions imposed by the hotel will apply.
- Attendance Certificate – a certificate of attendance will only be awarded to those delegates who successfully completed/attended the entire seminar including the awarding of applicable Continuing Professional Education Units/Hours.
- Force Majeure – any circumstances beyond the control of the Company may necessitate postponement, change of seminar venue or substitution of assigned Instructor. The Company reserves the right to exercise this clause and implement such amendments.
- Fair Access / Equal Opportunities – In the provision of its services as a world-class Training Provider, the Company is committed to provide fair access/equal opportunities throughout the delivery of its courses and assessment leading to the completion of training seminars, or 3rd party qualifications/certifications.