Supply Chain Resilience and Simulation Modelling

Overview

This course focuses on building resilient supply chains through simulation modelling to tackle disruptions effectively. Defence Personnel and other Defence Related Participants will learn to identify vulnerabilities and implement solutions to enhance supply chain performance.

What You Will Learn

Understanding Supply Chain Resilience

- Key concepts and restructuring for resilience.
- Supply Chain Security: Areas of vulnerability and risk assessment.
- Building Resilience: Strategies and steps for better control.
- Supply Chain Assessment: Using metrics and matrices for risk analysis.
- Developing a Supply Chain Model: Product identification, facility definition, and route planning.

Building Better Resilience into Supply Chains

- Building new resilience for the future
- Black Swan Event vs Cost of Business
- The Domino effect using the Bank of Japan Risk metrics.
- Organisational Resilience
- Why todays Supply China need to be Resilient and Flexible
- The True Cost of a Disruption is an Opportunity for Supply Chain Improvements

Supply Chain Adaptation

- Operational changes and supplier transitions.
- Supply Chain Disruption Management: Identifying disruptors and designing resilient solutions.
- Supply Chain Modelling: Designing and optimizing supply chains using simulation tools.
- Leveraging Technology: Implementing digital solutions for supply chain optimisation.
- Continuation of Supply Chain Improvement: Refining and optimising supply chain models.

Defining Facilities and Vehicles

- Cost-effective modelling and route optimisation.
- Exploring New Designs: Innovative approaches to supply chain design.
- Running Simulation: Assessing supply chain performance and identifying failures.
- Fixing Points of Failure: Analysing and improving supply chain performance.
- Supply Chain Model Assignment: Optimising supply chain performance.

Course Outcome

Upon completion, participants will be able to develop resilient supply chains to mitigate disruptions. Identify vulnerabilities and implement effective risk management strategies. Utilise simulation modelling tools to optimise supply chain performance. Implement digital solutions for enhanced supply chain management and apply best practices in supply chain design and improvement.

Disclaimer

This training course is designed to meet the stringent and rigorous standards of the Defence Sector; however, an equivalent version exists to meet the needs of Government, Public and Private Sectors. While diligent efforts have been made to ensure the relevance and efficacy of the content for Defence purposes, interested participants from other sectors are advised that suitable material is available for their specific requirements, and that any discrepancies in this training promotional material regarding the applicability to non-Defence sectors are hereby acknowledged, and interested individuals, or parties are encouraged to seek clarification or supplementary information as necessary. The course provider hereby absolves itself of liability for any inaccuracies or omissions arising from differences in sector-specific regulations, policies, or practices. By enrolling, participants unequivocally affirm their understanding and acceptance to this disclaimer, thereby acknowledging their responsibility to evaluate the course's suitability for their individual sector requirements.