Resilient Supply Chain Design Training Course

Professional Development Training Course Outline

Category	Logistics and Supply Chain Management	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In today’s volatile global market, businesses face unprecedented disruptions in supply chain operations due to factors such as geopolitical tensions, natural disasters, pandemics, and rapid technological changes. Organizations must prioritize resilient supply chain design, ensuring continuity, agility, and adaptability. Resilient Supply Chain Design Training Course equips professionals with the knowledge and skills required to analyze vulnerabilities, mitigate risks, and optimize supply chain processes to withstand shocks and maintain operational excellence. Participants will explore the integration of advanced analytics, digital tools, and risk management frameworks to foster sustainable and robust supply chains.

The course emphasizes a hands-on approach, combining theoretical insights with practical case studies to address real-world challenges. Learners will gain expertise in strategic sourcing, inventory optimization, demand forecasting, supplier collaboration, and crisis management. By the end of the program, participants will be able to implement proactive measures, design flexible networks, and build resilient operations that ensure organizational competitiveness and customer satisfaction.

Programme Curriculum

Resilient Supply Chain Design Training Course

Introduction

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Course Objectives

By the end of this training, participants will be able to:

1. Understand the principles of resilient supply chain design.
2. Analyze supply chain risks and vulnerabilities.
3. Implement advanced supply chain analytics for better decision-making.
4. Optimize inventory and warehouse management practices.
5. Develop effective supplier risk management strategies.
6. Design agile and flexible supply chain networks.
7. Apply predictive and demand forecasting techniques.
8. Integrate technology and digital tools for resilience.
9. Build strategies for crisis response and recovery.
10. Foster collaboration and communication across supply chain stakeholders.
11. Evaluate the impact of global disruptions on supply chain performance.
12. Implement sustainable and environmentally responsible practices.
13. Measure and monitor resilience performance metrics.

Organizational Benefits

1. Minimized supply chain disruptions and operational downtime.
2. Improved supplier collaboration and risk mitigation.
3. Enhanced customer satisfaction through reliable delivery.
4. Greater flexibility to adapt to market fluctuations.
5. Cost efficiency through optimized inventory and resource allocation.
6. Increased competitiveness in global markets.
7. Strengthened crisis management and contingency planning.
8. Enhanced use of data-driven decision-making.
9. Support for sustainability and ESG initiatives.
10. Development of a proactive and resilient organizational culture.

Target Audiences

1. Supply chain managers and directors
2. Procurement and sourcing professionals
3. Logistics and operations managers
4. Risk management specialists
5. Inventory and warehouse supervisors
6. Manufacturing planners and coordinators

7. Consultants in supply chain optimization
8. C-level executives seeking strategic insights

Course Duration: 10 days

Course Modules

Module 1: Introduction to Resilient Supply Chain Design

- Principles of supply chain resilience
- Key performance metrics for resilience
- Risk and disruption identification
- Integration of resilience into organizational strategy
- Case Study: Global supply chain disruption analysis
- Group activity: Identifying vulnerabilities in participants' supply chains

Module 2: Supply Chain Risk Assessment and Mitigation

- Risk mapping techniques
- Quantitative and qualitative risk analysis
- Risk prioritization and mitigation strategies
- Supplier risk evaluation
- Case Study: Supplier failure impact assessment
- Workshop: Developing a risk mitigation plan

Module 3: Strategic Sourcing and Supplier Collaboration

- Supplier segmentation strategies
- Negotiation techniques for resilient partnerships
- Performance monitoring and KPIs
- Collaborative planning approaches
- Case Study: Multi-tier supplier resilience
- Group discussion: Building supplier resilience strategies

Module 4: Inventory Optimization Techniques

- Safety stock and buffer strategies
- Multi-echelon inventory management
- Demand-driven replenishment
- Lean and agile inventory approaches
- Case Study: Inventory optimization under demand variability
- Simulation: Balancing cost and service levels

Module 5: Demand Forecasting and Predictive Analytics

- Forecasting methods and tools
- Predictive analytics for demand planning
- Scenario modeling and stress testing
- Forecast accuracy and bias management
- Case Study: Forecasting during market disruptions
- Hands-on exercise: Forecast modeling using historical data

Module 6: Digital Transformation in Supply Chains

- Emerging technologies in supply chain management
- IoT, AI, and blockchain applications
- Supply chain visibility and monitoring tools
- Data integration for real-time decision-making
- Case Study: Digital adoption success in global supply chains
- Workshop: Designing a digital supply chain roadmap

Module 7: Agile and Flexible Network Design

- Network design principles for flexibility
- Multi-location and multi-modal strategies
- Contingency planning for network disruptions
- Resilience metrics for network evaluation
- Case Study: Network redesign for disruption resilience
- Group activity: Mapping resilient network configurations

Module 8: Crisis Management and Business Continuity Planning

- Crisis response frameworks
- Business continuity strategies
- Communication protocols and decision-making
- Stress testing supply chain plans
- Case Study: Pandemic response in global supply chains
- Simulation: Crisis management scenario exercises

Module 9: Sustainability and Responsible Supply Chains

- ESG compliance and reporting
- Circular economy principles
- Supplier sustainability assessment

- Reducing environmental impact in supply chains
- Case Study: Green supply chain implementation
- Workshop: Designing sustainable supply chain initiatives

Module 10: Performance Measurement and Continuous Improvement

- Key resilience metrics and KPIs
- Benchmarking and best practices
- Continuous monitoring systems
- Performance reporting and dashboards
- Case Study: Metrics-driven resilience improvement
- Group activity: Designing performance measurement systems

Module 11: Collaboration and Stakeholder Management

- Internal and external stakeholder engagement
- Communication strategies for supply chain resilience
- Building trust and transparency
- Conflict resolution and negotiation
- Case Study: Multi-stakeholder collaboration success
- Role-play: Stakeholder engagement exercises

Module 12: Supply Chain Scenario Planning

- Scenario development and analysis
- Stress-testing supply chain strategies
- Evaluating alternative strategies under uncertainty
- Simulation tools for scenario planning
- Case Study: Scenario planning for natural disasters
- Group activity: Scenario analysis workshop

Module 13: Technology Integration for Resilience

- ERP systems and advanced analytics
- Cloud-based supply chain solutions
- Digital twins and simulation models
- Cybersecurity considerations
- Case Study: Technology-driven resilience gains
- Hands-on exercise: Tool selection and integration plan

Module 14: Policy, Regulation, and Compliance in Supply Chains

- Regulatory landscape overview
- Compliance strategies and audits
- Risk management in regulatory frameworks
- Policy alignment with resilience objectives
- Case Study: Regulatory disruption impact assessment
- Workshop: Compliance integration in supply chain planning

Module 15: Capstone Project and Case Study Application

- Comprehensive supply chain resilience assessment
- Strategy design for real-world scenarios
- Team-based problem-solving exercises
- Presentation of solutions and recommendations
- Case Study: End-to-end resilient supply chain design
- Feedback and peer evaluation

Training Methodology

- Interactive lectures and expert presentations
- Hands-on workshops and group exercises
- Case study analysis from real-world supply chain disruptions
- Simulation and scenario planning exercises
- Role-playing for stakeholder engagement
- Peer-to-peer learning and discussions
- Use of digital tools and analytics software
- Continuous feedback and Q&A sessions
- Capstone project to apply learned concepts
- Practical exercises tailored to participant organizations

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.com or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to FINESKILL TRAINING CENTER account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
07 Sep 2026	18 Sep 2026	Online	$3,000
14 Sep 2026	25 Sep 2026	Online	$3,000
21 Sep 2026	02 Oct 2026	Online	$3,000
28 Sep 2026	09 Oct 2026	Online	$3,000
05 Oct 2026	16 Oct 2026	Online	$3,000
12 Oct 2026	23 Oct 2026	Online	$3,000
19 Oct 2026	30 Oct 2026	Online	$3,000
26 Oct 2026	06 Nov 2026	Online	$3,000

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