



Logistics Management and Supply Chains for NGO's Course



COURSE DESCRIPTION

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COURSE DESCRIPTION :

The Supply Chain Management course is designed to provide participants with a comprehensive understanding of the principles, strategies, and best practices involved in effectively managing supply chains for humanitarian operations.

This course outline covers various aspects of supply chain management, from planning and inventory management to collaboration and ethical considerations. It provides a holistic understanding of the challenges and strategies involved in efficiently and effectively delivering supplies during disasters.



COURSE OBJECTIVES

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- 1- Understand Supply Chains with its unique characteristics, challenges, and importance of supply chains in disaster management contexts.
- 2- Plan and Prepare for Operations.
- 3- Optimize Inventory Management.
- 4- Design Effective Transportation Strategies
- 5- Utilize Technology and Data in supply chain management.
- 6- Understand collaboration mechanisms with governmental agencies, NGOs, international organizations, and local communities to coordinate efforts and share resources effectively.



COURSE OBJECTIVES

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- 7- Analyze ethical considerations related to resource allocation, cultural sensitivity, and the well-being of workers and affected populations.
- 8- Evaluate post-disaster performance, identify areas for improvement, and implement lessons learned to enhance future supply chain strategies.
- 9- Integrate sustainability principles into supply chains and promote long-term community resilience

Outline

TOPICAL OUTLINE / UNIT OBJECTIVES:

Upon completion of this course, the student will be able to:

Course Intro

- Class introductions
- Review syllabus
- Preview assignments and exercises, including the final group project
- Begin Initial Exercise: Response Template Planning

Module One – Introduction to Supply Chain Management

- Understanding the concept of supply chain management with a focus on the humanitarian Context and Humanitarian Systems.
- Importance of efficient and effective disaster supply chains
- Key challenges and unique characteristics of supply chains

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Module Two – Disaster Preparedness and Planning

- Risk assessment and vulnerability analysis in disaster-prone regions
- Developing disaster response strategies and contingency plans
- Pre-positioning of supplies and resources
- General Framework for humanitarian logistics
 - a Exercise: Hurricane Forecast
 - b “Early Warning, Early Action: An Evaluation of IFRC West and Central Africa Zone Flood Preparedness and Response,” International Federation of Red Cross and Red Crescent Societies, 2008

Module Three – Collaboration and Relationship building in humanitarian supply chain

Part One:

This module discusses the actor-based typology of humanitarian relationships. The framework includes relationships among NGOs, as well as between NGOs and UN agencies, military units, and business firms with examples.

This session also examines compatibility and complementarity of organizations across the three phases of humanitarian work: preparation,

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response, and recovery or development. Iner-agency collaboration and stakeholder engagement and coordination mechanisms.

Part Two:

Case studies on designing partnerships under high uncertainty and limited resources between humanitarian organizations in order to understand the drivers, facilitators and components, of a partnership

Module Four – Inventory Management

- • Inventory planning and management techniques for supplies
- • Just-in-time vs. anticipation-based inventory strategies
- • Warehouse layout and design for disaster storage

Module Five: Transportation and Distribution

- Modes of transportation for disaster : air, land, sea
- Routing and scheduling for timely delivery in challenging environments
- Last-mile distribution and overcoming accessibility constraints.

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Module Six - Information and Communication Technology in Supply Chains

- Role of technology in real-time tracking, monitoring, and coordination
- Geographic Information Systems (GIS) for mapping disaster-affected areas
- Mobile applications for communication and data sharing

Module Seven – Humanitarian Aid logistics and ethics

- Common features in humanitarian logistics and set these apart from contextual factors such as infrastructural weaknesses.
- Coordination in the logistics response of humanitarian organizations
- Ethical considerations in supply chain management
- Cultural sensitivity and local context in disaster response
- Psychological well-being of workers and volunteers
- Disaster Impact and Country Logistics Performance

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Module Eight – Financial Management and Funding

- Budgeting and cost estimation for operations
- Funding sources: government, donors, international organizations
- Cost-effectiveness and resource optimization in supply chains

Module Nine – Post-Disaster Supply Chains: Assessment and Learning

- Conducting post-disaster assessments and lessons learned
- Adapting and improving supply chain strategies based on feedback
- Continuous improvement and adapting to evolving disaster scenarios

Module Ten – Value Chain Analysis

- Understanding the concept and significance of value chain analysis in the context of disaster supply chains.
- Exploring key components such as value-adding activities, stakeholders, and cost structures.
- Highlighting the role of value chain analysis in optimizing operations for efficient and effective supply delivery.

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Module Eleven- Case Studies and Practical Exercises

- Analyzing real-world supply chain cases and challenges
- Simulations and hands-on exercises to reinforce learning
- Group projects: designing a supply chain strategy for a specific disaster scenario

Module Twelve - Future Trends in Supply Chain Management

- Innovations in supply chain technology and practices
- Sustainability considerations in operations
- Anticipating and adapting to future disaster challenge

Outline

COURSE REQUIREMENTS AND GRADING

Participants' understanding and application of supply chain management concepts will be assessed through assignments, short quizzes and a final capstone project where they design a comprehensive supply chain strategy for a specific disaster scenario.

Overall note: Often there is not a single correct answer to the exercises and writeups. We are interested in your thinking.

Individual Assignments (20%)

Three individual assignments and one quiz will be given during the course.

Final Group Project (40%)

You will work in a group on a comprehensive assignment based on a practical scenario. The basic structure of the assignment will be the same for each group. Specific information about the assignment will be distributed during the course.

Classroom Attendance and Participation (40%)

It is essential that you come to class prepared to share your insights and analysis with others. Participants will be evaluated on the quality (not the quantity) of the contribution.

NOTES:

- Number of credit hours : 45 ((39 training hours & 6 hours group graduation project))
- **The Course starts on 21/10/2023.**
- **At these times:**
Saturday at center from 9:30M – 12:30M
Wednesday "Online" from 7PM – 9:30PM



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