COURSE SYLLABUS

Principles of Supply Chain Management Course

This is a two-day, introductory course focused on the fundamental principles of supply chain management in federal agencies. Designed to address supply chain challenges unique to the public sector, this course introduces students to key supply chain management concepts including procurement, inventory levels, logistics management and compliance with federal regulations. Participants will explore real-world applications of supply chain operations through lectures, interactive discussions, and a practical case study.

> Group classes (Live Online) and onsite training are available for this course. For more information, email onsite@graduateschool.edu or visit: https://sdfm.graduateschool.edu/courses/principles-of-supply-chain-management



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Course Outline

Module 1: Introduction to Supply Chain Management

- Define Supply Chain Management (SCM) and identify key components such as procurement, logistics, and inventory management.
- Explain the benefits of effective SCM for federal operations and how it contributes to improved efficiency and cost savings.
- Explore real-world examples of SCM in federal agencies and how these practices support mission objectives.

Module 2: Federal Supply Chain Management Framework

- Define key components of federal supply chain management and explain the benefits of effective management within federal agencies.
- Identify compliance requirements such as FAR, DFARS, and discuss the challenges specific to federal SCM.
- Discuss how these frameworks ensure proper procurement, compliance, and logistics support for federal operations.

Module 3: Government Property FAR 52.245-1

- Learn about the purpose and scope of FAR 52.245-1 in managing government property.
- Explain government responsibilities under FAR 52.245-1 and a contractor's obligations regarding property management.
- Identify types of government property, the consequences of noncompliance, and procedures for loss, damage, and disposal of government property.

Module 4: Inventory Management

- Define types of inventories and describe common inventory management challenges within federal agencies.
- Understand inventory management techniques such as Just-In-Time (JIT) and Economic Order Quantity (EOQ) methods.
- Explore best practices in federal inventory management to optimize resources, reduce waste, and improve operational efficiency.

Module 5: Logistics and Transportation

- Explain the role of logistics and transportation in SCM and how they contribute to efficient supply chain operations.
- Identify key challenges in federal logistics and transportation, including regulations and coordination with vendors and contractors.
- Discuss strategies for optimizing logistics and transportation to enhance operational effectiveness.

Module 6: Case Study

- Apply logistics concepts to a real-world emergency response case study involving FEMA's logistics response to a natural disaster.
- Identify bottlenecks and propose realistic logistics solutions in the face of challenging infrastructure and supply chain constraints.
- Analyze the case study to prioritize logistics tasks and adjust plans in response to external challenges, such as a second disaster hitting within 96 hours.

Module 7: Technology in Supply Chain Management

- Learn about the technologies used in federal SCM, such as RFID, ERP, Blockchain, and AI.
- Understand the challenges of implementing SCM technologies in federal agencies and discuss their potential benefits for improving supply chain efficiency.
- Review case studies of federal use cases for these technologies and how they support operational goals and decision-making.

Module 8: Principles of Supply Chain Management

- Review the key lessons and takeaways from the course.
- Understand the practical application of SCM principles in federal agencies and how they improve the efficiency of government operations.