Supply Chain Technology – ASCM (APICS) Certificate

Date and duration

Training code : SUPC017EN
Duration : 2 days
Nombre d'heures : 14 heures

Training with certification

Supply Chain Technology Certificate (ASCM/APICS)

Body

The digital era has profoundly transformed **supply chain management**, ushering it into a world driven by data, automation, and connectivity. For companies aiming to remain competitive, mastering emerging technologies has become essential. These tools not only optimize operations but also create new opportunities to enhance **efficiency, transparency, and resilience** across the supply chain.
This **Supply Chain Technology** certification program offers a comprehensive exploration of the innovations revolutionizing the industry. You will gain an in-depth understanding of **blockchain**, advanced analytics and artificial intelligence, the **Internet of Things (IoT)**, cybersecurity, demand planning, and **additive manufacturing (3D printing)**. The program is designed to help you master the practical application of these technologies to improve your organization’s performance.
By the end of this training, you will have acquired the key skills to successfully pass the **Supply Chain Technology Certificate exam** from ASCM. You will benefit from thorough preparation, a clear understanding of the exam domains, and targeted practice to maximize your chances of success and gain recognition of your expertise in the digital transformation of supply chains (see the certification tab for more details).

Objectifs

By the end of the Supply Chain Technology Certificate training, you will be able to:

- Understand emerging technologies such as blockchain, advanced analytics, the Internet of Things (IoT), cybersecurity, demand planning, and additive manufacturing (3D printing).
- Explain how to implement these technologies to improve organizational performance.
- Define and describe the concepts and applications of blockchain, including its advantages, disadvantages, and supply chain use cases.
- Differentiate between the types of analytics (descriptive, diagnostic, predictive, prescriptive, and cognitive) and explain how artificial intelligence and machine learning are applied in the supply chain.
- Describe the functioning and evolution of IoT, its importance for supply chain visibility, and the challenges related to its implementation.
- Discuss the interrelationship of cybersecurity within a company and the supply chain, and explain tools and techniques for risk management.
- Master demand planning and the use of technologies for forecasting, while recognizing the role of demand planning in inventory management.
- Define additive manufacturing (3D printing) and describe its benefits and challenges for the supply chain.
- Prepare effectively for the Supply Chain Technology Certificate exam.

Points forts

- **Certified Expert Instructors**: Benefit from the expertise of highly qualified professionals experienced in supply chain technologies, ensuring in-depth mastery of the concepts.
- **Comprehensive and Up-to-Date Program**: A curriculum rigorously aligned with the Supply Chain Technology Certificate, covering all essential aspects of emerging technologies such as blockchain, IoT, and advanced analytics.
- **Hands-On Mastery**: Acquire key skills through real-world case studies and practical exercises relevant to the challenges of integrating technology into supply chain operations.
- **Targeted Exam Preparation**: Intensive preparation with study resources and strategic guidance to maximize your chances of success in the final exam, enabling you to earn the certificate and digital badge.

Certification

This training prepares you intensively for the Supply Chain Technology Certificate exam from APICS (ASCM). A voucher code will be provided at the end of the course so you can schedule your exam.

Exam Details:

- **Format**: Multiple Choice Questions (MCQ)
- **Number of Questions**: 72
- **Location**: Online via the ASCM website
- **Language**: English (translations available in Spanish and French)
- **Passing Score**: 70% or higher

Our training will provide you with the knowledge and tools you need to approach the exam with confidence. Upon successful completion, you will earn the Supply Chain Technology Certificate as well as a digital badge, which you can showcase on your LinkedIn profile and in your email signature.
Note: The Supply Chain Technology Certificate is valid for life. For more details, please refer to the APICS Exam Handbook.

Modalités d'évaluation

Practical Work
Case study

Pré-requis

Prerequisites for this training

Professional Experience

- Practical experience or familiarity with one or more areas of supply chain management is recommended, such as:
    - Operations management
    - Logistics
    - Inventory management
    - Procurement management
    - Production planning

**Experience is not strictly required, but it helps better understand the impact of the technologies studied on the overall functioning of the supply chain.*

Foundational Knowledge

- A solid understanding of the fundamental concepts of supply chain management is strongly recommended. This includes:
- Key supply chain terminology
- Understanding the impact of technologies on supply chain performance
- Knowledge of basic principles related to planning and executing operations

Public

- **Supply chain professionals seeking to enhance their expertise** in leveraging emerging technologies within their industry. This includes roles such as supply chain managers, logistics professionals, and procurement managers.
- **IT specialists and professionals** involved in the implementation and management of technologies within the supply chain.
- **Beginners and mid-level professionals** who wish to gain a foundational understanding of how technologies directly impact supply chain performance.

Programme

Module 1: Mastering Blockchain Technology

- Definition and functioning of blockchain.
- Distinction between public and private blockchains.
- Advantages and disadvantages of using blockchain technology.
- Key factors to consider when implementing blockchain.
- Use of blockchain in the supply chain.
- Smart contracts and non-fungible tokens (NFTs).
- Case studies of companies using blockchain.

Module 2: Developing Advanced Analytics and Automation Skills

- Definition of advanced analytics and automation.
- Comparison of descriptive, diagnostic, predictive, prescriptive, and cognitive analytics.
- The data mining process and its challenges.
- Data storage options and security concerns with cloud computing.
- Use of artificial intelligence and machine learning in the supply chain.
- Steps for selecting a new technology.
- Skills required for employees working with advanced analytics and automation.

Module 3: Managing Visibility with the Internet of Things (IoT)

- Definition of IoT, its evolution, and applications.
- The need for and benefits of tracking and traceability technology.
- Technologies required for capturing, transmitting, and accessing IoT data.
- Infrastructure required for IoT, including platforms and business application integration.
- The concept of digital twins: uses, benefits, and risks.
- Applications of IoT in manufacturing and retail.
- Implementation challenges and actions to avoid IoT-related risks.

Module 4: Ensuring Data Security with Cybersecurity

- The interrelationship of cybersecurity within a company and its supply chain.
- The need for and characteristics of a cybersecurity governance program.
- Tools and techniques for risk assessment, management, and mitigation.

- Different levels of network access controls and monitoring methodologies.
- Redundancy, firewalls, and advanced anti-hacking technologies.
- The importance of cybersecurity training at all organizational levels.

Module 5: Optimizing Forecasts with Demand Planning Technologies

- The importance of demand planning and its related technologies.
- Essential steps for demand forecasting.
- Different forecasting methods (judgmental, statistical, hybrid) and how to choose the right one.
- The future of demand planning through technology.
- Types and sources of forecasting errors and how to reduce them.
- The role of demand planning in inventory management.
- Use of machine learning and AI for improved demand forecasting.

Module 6: Integrating Additive Manufacturing (3D Printing) into the Supply Chain

- Definition of additive manufacturing (AM) and its benefits.
- Key elements required to implement AM, including processes and materials.
- Benefits of AM for the supply chain.
- Implementation challenges and limitations, along with the pros and cons of in-house vs. outsourced AM.
- Situations when companies should or should not use AM.

Module 7: Preparing for the Exam

- In-depth review of the key concepts covered across all modules.
- Additional resources for the ASCM Supply Chain Technology Certificate exam.
- Strategies and tips to maximize success on the exam.