



# AI+ Supply Chain™

Certification

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LEARNING



## Introduction

The AI+ Supply Chain Certification offers an in-depth exploration of how Artificial Intelligence (AI) is transforming Supply Chain Management (SCM), covering everything from foundational concepts to advanced AI-driven solutions. This certification includes essential topics, such as AI techniques for optimizing supply chain processes, the strategic use of generative AI, and the digitalization of supply chain operations.

Through this certification, you will explore AI-enhanced decision-making, industry-specific use cases, and the integration of AI into logistics management. This certification also offers a practical workshop where you will apply AI methodologies to real-world supply chain challenges, equipping you to lead AI-driven innovations in your organization.

The program covers the following topics that enable a better understanding of the incorporation of AI in the Supply Chain:

- Introduction to Artificial Intelligence in Supply Chain
- Advanced AI Techniques for Supply Chain
- Generative AI in Supply Chain Management
- Supply Chain Digitization
- Intelligent Driven Supply Chain Management
- Industry Aspects of Advanced SCM
- Policies of Logistics Management in Supply Chain with AI
- Supply Chain Masterclass with AI Assistance

## Certification Prerequisites

- **Basic Knowledge of Supply Chain Foundations:** A solid understanding of supply chain fundamentals, including key concepts, processes, and operational workflows.
- **Familiarity with AI Concepts:** A general understanding of AI, including Machine Learning (ML) and data analytics, is recommended.
- **Experience with Business Management or Technical Tools:** Previous experience with business management or technical tools like Enterprise Resource Planning (ERP) systems or data analysis software is beneficial.
- **Analytical and Problem-Solving Skills:** Strong analytical and problem-solving skills are crucial for understanding and applying AI-driven techniques in supply chain scenarios.

## Who Should Enroll?

- **Supply Chain Professionals:** Individuals aiming to enhance their AI knowledge for optimizing supply chain processes and decision-making.

- **Data Analysts:** Professionals wanting to leverage AI for data analysis to improve supply chain performance and drive insights.
- **Business Managers and Executives:** Leaders seeking to understand AI's strategic impact on supply chains and implement innovative solutions within their organizations.
- **Operations and Logistics Managers:** Managers looking to integrate AI technologies to enhance efficiency and **streamline workflows in supply chain activities.**

## Certification Goals and Learning Outcomes

- Build and demonstrate expertise in integrating advanced AI methods into SCM.
- Gain skills to optimize supply chain operations and leverage AI for data-driven decision-making.
- Develop the ability to implement AI-driven innovations across various industry environments.
- Lead digital transformation initiatives and enhance operational efficiency using AI technologies.
- Strategically address supply chain challenges with advanced AI solutions.

## How to Integrate AI in Supply Chain Management

Incorporating AI into the supply chain can boost performance and versatility. Here are key steps to integrate AI into SCM:

- ✓ Evaluate existing supply chain processes to identify areas for AI Integration
- ✓ Set specific, measurable goals for AI integration
- ✓ Choose suitable AI tools and platforms that align with your goals
- ✓ Gather relevant data from various sources
- ✓ Create AI models tailored to your supply chain needs
- ✓ Conduct a pilot project to test the AI models in a controlled environment
- ✓ Scale up the integration of AI across the supply chain
- ✓ Continuously monitor and optimize supply chain outcome



By following these steps, organizations can effectively integrate AI into their SCM, enhancing efficiency and competitiveness.

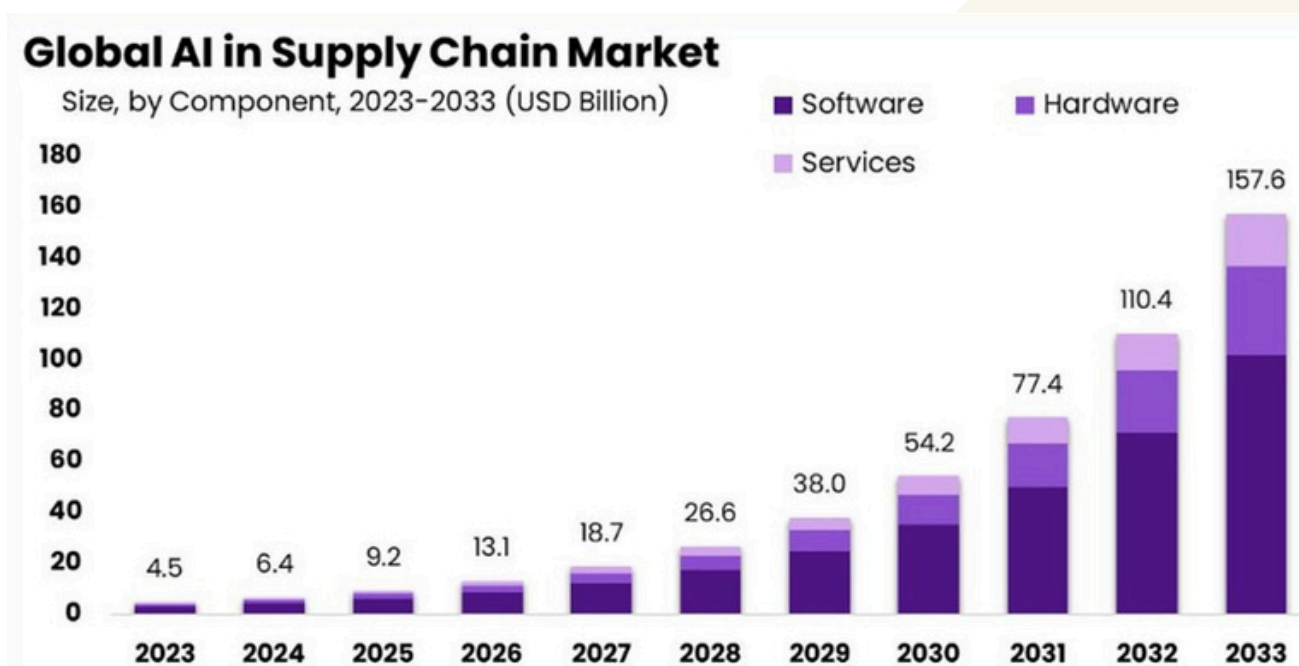
## A Brief Summary on AI+ Supply Chain Certification

At AI CERTs, we help organizations unlock the transformative potential of AI with our top-tier suite of role-based certifications.

The AI+ Supply Chain Certification explores how AI enhances SCM, improving efficiency and decision-making. Key modules cover AI fundamentals, data analytics, predictive modeling, and ethical considerations, equipping you with essential skills for transformation.

### Module 1: Introduction to Artificial Intelligence in Supply Chain

The introduction to AI in Supply Chain is essential because it lays the groundwork for understanding how AI technologies can revolutionize traditional supply chain processes. According to Market.us, the AI in supply chain market size is set to reach \$6.4 Billion by 2024, with a growing Compound Annual Growth Rate (CAGR) of 42.7% during the forecast period.



In this module, you will explore the fundamentals of AI in SCM, including key processes like procurement and logistics. It covers challenges in traditional supply chains, such as demand forecasting and inventory management. The role of AI in automation, optimization, and practical applications will be highlighted. Ethical considerations and challenges in AI implementation will also be discussed, providing insights into best practices in the evolving landscape of AI in SCM.



## Module 2: Advanced AI Techniques for Supply Chain

Understanding advanced AI techniques for supply chain chains is essential because these techniques enable organizations to enhance efficiency, accuracy, and agility in their operations.

Within this module, you will explore foundational AI concepts in SCM, including ML algorithms and their applications in demand forecasting and logistics optimization. You will examine expert systems, rule-based reasoning, and the challenges of classical AI in dynamic environments. The module also covers AI techniques for image and text processing, focusing on applications in quality control and Natural Language Processing (NLP) for enhanced supply chain insights.

## Module 3: Generative AI in Supply Chain Management

Generative AI is increasingly important in SCM as it simulates various supply chain scenarios, enabling businesses to identify optimal strategies for resource allocation and risk management. As reported by Precedence Research, the global market for Generative AI in the supply chain was valued at \$640.04 million in 2024. It is expected to grow around \$12,941.14 million by 2032, reflecting a CAGR of 45.62% throughout the forecast period.

The module covers the fundamentals of Generative AI, including key concepts and historical evolution, along with types of generative models like Variational Autoencoders (VAEs) and Generative Adversarial Networks (GANs). It explores applications in SCM, focusing on design, optimization, and logistics. You will also examine the enhancement of revenue management and demand forecasting through generative AI. Additionally, it introduces Transformer and Long Short-Term Memory (LSTM) architectures, highlighting their roles in text generation and sequence processing.

## Module 4: Supply Chain Digitization

Supply chain digitization is essential as it enhances operational efficiency, transparency, and agility. By leveraging digital technologies, organizations can automate processes, improve data accuracy, and facilitate real-time decision-making, which leads to reduced costs and increased responsiveness to market changes.

The module deep dives into supply chain digitization, focusing on the role of digital technologies like AI, IoT, and blockchain in enhancing efficiency, transparency, and agility. It explores the evolution of SCM from traditional to digital supply chains and the impact of Industry 4.0. Additionally, you will understand the importance of data science and analytics in decision-making, as well as supply chain integration and push-pull strategies. The module also addresses building resilient supply chains and emphasizes sustainability practices supported by digital technologies.

## Module 5: Intelligent Driven Supply Chain Management

The role of Intelligent driven SCM is to leverage advanced technologies such as AI, ML, and data analytics to enhance decision-making and optimize supply chain processes.

The module highlights how smart SCM integrates advanced technologies like ML and robotics to improve efficiency and decision-making. It covers key principles such as supply chain integration and push-pull strategies, while also addressing challenges in AI implementation. Additionally, you will explore prompt engineering's role in enhancing AI applications within SCM. Lastly, the module discusses future trends driven by AI and 5G technology, focusing on autonomous operations and increased resiliency.

## Module 6: Industry Aspects of Advanced SCM

Industry aspects of advanced SCM are crucial because they ensure that organizations can effectively respond to the dynamic challenges of a rapidly changing market environment. By understanding industry-specific trends, regulations, and customer demands, businesses can tailor their supply chain strategies to enhance efficiency and competitiveness.

In this module, you will explore key processes in industrial SCM, including procurement and logistics, while addressing traditional SCM limitations. Disruptive technologies like AI, ML, and blockchain will be examined for their innovative potential. You will learn about the strategic role of AI and generative AI in enhancing efficiency and customer satisfaction through case studies. Additionally, the module will cover the risks and challenges of adopting these technologies, along with strategies for successful implementation to maximize business value.

## Module 7: Policies of Logistics Management in Supply Chain with AI

The need for policies in logistics management within supply chains that integrate AI arises from the complexities and challenges of modern supply chain operations. With the increasing reliance on AI technologies, clear policies ensure data privacy, security, and ethical use of algorithms in SCM.

The module explores the vital role of SCM in driving organizational success, focusing on cost reduction and customer satisfaction. It emphasizes aligning supply chain objectives with business strategies and highlights AI-enhanced warehousing and logistics strategies. Key technologies improving SCM efficiency, and the role of IT are also discussed. Additionally, you will address the alignment of supply chain strategies with the UN's Sustainable Development Goals and cover concepts like AI-driven demand planning and risk management.

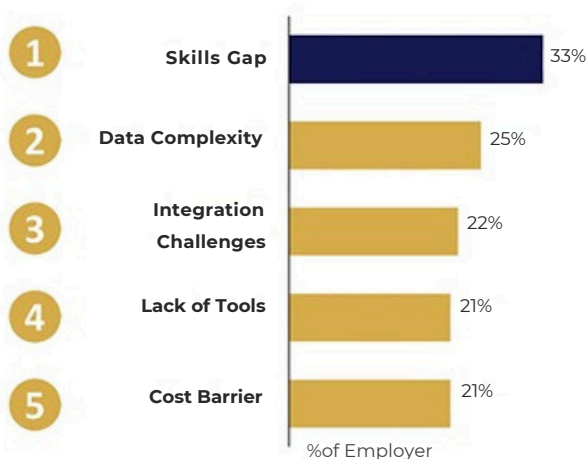
## Module 8: Supply Chain Masterclass with AI Assistance

In this last module, you will explore AI-driven supplier selection and relationship management, focusing on criteria for choosing strategic suppliers and enhancing relationships. You will learn to create an AI-based demand forecasting model and understand its implementation. The module also covers advancements like autonomous vehicles, IoT and AI synergy, and blockchain integration for supply chain transparency. Additionally, it discusses how 5G and emerging technologies shape the future of smart supply chains.

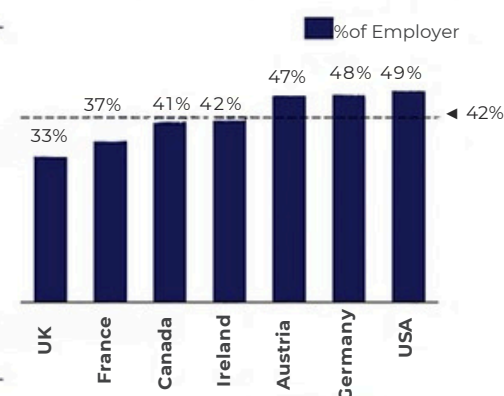
### How Can We Help Build an AI-Ready Culture?

While AI offers significant advantages, businesses frequently encounter challenges such as skill gaps, intricate data management, and integration difficulties during implementation. At AI CERTs, we tackle these issues by offering top-tier certifications that empower organizations to successfully navigate and overcome these obstacles.

Why do companies struggle to adopt AI technologies? (2023)



Share of employers saying lacking AI skills is a barrier to adopt AI (2023)



employers of the major  
42% economies believe a shortage  
of AI skills

## Empowering Supply Chain Professionals with AI Skills

- **Challenge:** Supply chain professionals frequently encounter limitations in accessing the latest AI tools, platforms, and training resources necessary for skill enhancement and staying abreast of technological advancements.
- **Solution:** AI CERTs provide comprehensive and current training on the most recent AI tools and platforms, specifically designed for supply chain professionals.
- **Benefit:** By gaining access to advanced tools and training, supply chain professionals can successfully integrate AI into their processes, thereby improving automation capabilities and optimizing operational outcomes.

We offer a strategic solution, fostering a culture primed for AI integration and innovation. In Collaboration with AI CERTs our AI certification offers in-depth training and industry-recognized credentials, equipping employees to drive your company towards an AI-powered future.

### Cultivate AI Culture in Several Ways:

- Our certification provides a clear and thorough examination of AI fundamentals and applications, ensuring a straightforward learning experience.
- We offer continuous education to keep your team updated on the latest AI developments, helping your organization remain at the cutting edge.
- AI CERTs also promote knowledge sharing and collaboration, which are essential for successful AI implementation.

### Your Pathway to Becoming AI-Ready

The future of business belongs to those who harness the power of AI.

**Tailored for Success:** Our certifications are designed to meet the unique needs of your organization, ensuring they are not generic. Created by industry experts, our specialized training equips your workforce with the specific skills and knowledge needed to excel in critical AI roles.

**Actionable Expertise:** We focus on hands-on experience, not just theory. Through real-world projects and case studies, your team will acquire the practical skills and confidence to implement AI technologies effectively, driving innovation and delivering measurable results.

**Become an AI Leader:** Don't just adapt to the AI revolution—lead it. Invest in your workforce's future. Together, we'll create an AI-inclusive culture that empowers your team to harness AI's transformative potential and advance your organization to the forefront.





Authorized Training Partner

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