Optimizing Construction Supply Chain and Logistics Training Course

14 - 18 Dec 2026

Tokyo

5800 € (Per Person)

Ref: #CON4490_86541

Course Introduction / Overview:

The construction industry operates on a project-based model, making its supply chain uniquely complex and fragmented compared to traditional manufacturing. Effective management of this intricate network of suppliers, materials, and logistics is paramount to project success, directly impacting timelines, budgets, and quality. This intensive training course provides a comprehensive exploration of the principles and practices essential for optimizing construction supply chains. Drawing on foundational concepts from leading academics like Dr. Stephen L. Pryke, author of "Construction Supply Chain Management: Concepts and Case Studies", this program delves into the strategic, tactical, and operational facets of construction logistics. Participants will move beyond theory to master practical skills in strategic procurement, site logistics planning, risk mitigation, and the integration of digital technologies. BIG BEN Training Center has designed this course to equip professionals with the tools to navigate challenges such as material delays, cost overruns, and coordination failures, transforming their supply chain from a source of risk into a strategic competitive advantage. This journey covers everything from lean construction principles to sustainable supply chain practices, ensuring a holistic and forward-thinking learning experience.

Target Audience / This training course is suitable for:

- Project Managers and Directors.
- Supply Chain and Logistics Managers.
- Procurement and Sourcing Professionals.
- Construction Site Managers and Supervisors.
- Operations Managers.
- Contract and Commercial Managers.
- Project Planners and Schedulers.
- Quantity Surveyors.

Target Sectors and Industries:

- Commercial and Residential Real Estate Development.
- Heavy Civil and Infrastructure Projects.
- Industrial and Energy Sector Construction.
- Specialized Trade Contracting.
- Government, Public Works, and Municipal Agencies.
- Architectural and Engineering Firms.
- Construction Management Consulting.

Target Organizations Departments:

- Procurement and Sourcing.
- Logistics and Supply Chain Management.
- Project Management Office (PMO).
- Operations and Site Management.
- Contracts and Commercial Management.
- Planning and Cost Control.
- Engineering and Design.

Course Offerings:

By the end of this course, the participants will have able to:

- Develop comprehensive logistics and supply chain strategies tailored to specific construction projects.
- Master advanced procurement techniques and supplier relationship management to ensure material availability and cost-effectiveness.
- Implement lean construction principles to minimize waste, reduce lead times, and improve overall workflow efficiency.
- Design and execute effective site logistics plans for material handling, storage, and distribution.
- Utilize digital tools and technologies for enhanced supply chain visibility, tracking, and data analysis.
- Identify, assess, and mitigate potential risks within the construction supply chain, from supplier failure to geopolitical disruption.
- Integrate sustainability and green logistics practices into supply chain operations to meet modern environmental standards.
- Improve coordination and communication among all project stakeholders, including contractors, suppliers, and clients.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be immersive, interactive, and highly practical, ensuring that participants can immediately apply their learning to real-world scenarios. This course moves beyond traditional lectures to foster a dynamic learning environment built on a foundation of active participation. A significant portion of the program is dedicated to analyzing real-world case studies of both successful and challenged construction projects, allowing participants to dissect complex supply chain problems and strategize effective solutions. Collaborative group workshops and problem-solving sessions will encourage peer-to-peer learning and the exchange of diverse industry experiences. Interactive simulations will challenge attendees to make critical decisions related to procurement, logistics planning, and risk management in a controlled environment. Our expert instructors facilitate discussions, provide personalized feedback, and guide participants in developing actionable plans they can implement within their own organizations. The emphasis is on building practical skills and strategic thinking, not just on theoretical knowledge, to create a lasting and impactful educational experience.

Course Agenda (Course Units):

Unit One: Foundations of Construction Supply Chain Management

- Introduction to the unique characteristics of construction supply chains.
- Key stakeholders and their roles in the supply chain ecosystem.
- Comparing construction SCM with manufacturing SCM.
- Common challenges and bottlenecks in construction logistics.
- The strategic importance of an integrated supply chain for project success.
- Core concepts of material flow, information flow, and financial flow.
- Introduction to performance metrics and KPIs in construction SCM.

Unit Two: Strategic Procurement and Supplier Management

- Developing a robust construction procurement strategy.
- Supplier selection, evaluation, and qualification processes.
- Negotiation techniques and contract management for construction materials.
- Building long-term, collaborative supplier relationships.
- Global sourcing versus local sourcing advantages and disadvantages.
- Managing procurement risks and price volatility.
- Ethical considerations and compliance in procurement.

Unit Three: On-Site Logistics and Materials Management

- Developing a comprehensive site logistics plan.
- Techniques for efficient material receiving, handling, and storage.
- Inventory management strategies to prevent stockouts and overstocking.
- Just-in-Time (JIT) delivery principles in a construction environment.
- Coordinating with subcontractors for material delivery and usage.
- Waste management and reverse logistics for construction sites.
- Optimizing the layout of laydown yards and storage areas.

Unit Four: Technology and Risk Management in the Supply Chain

- The role of Building Information Modeling (BIM) in supply chain coordination.
- Utilizing GPS, RFID, and IoT for material tracking and visibility.
- Introduction to supply chain management software and platforms.
- Identifying and assessing supply chain risks (e.g., delays, quality issues, financial instability).
- Developing risk mitigation and contingency plans.
- Managing disruptions from weather, labor shortages, and geopolitical events.
- The role of data analytics in predictive supply chain management.

Unit Five: Lean Construction and Sustainable Supply Chains

- Applying lean principles to eliminate waste in the supply chain.
- The Last Planner System (LPS) for improved workflow reliability.
- Value stream mapping for construction processes.
- Principles of sustainable and green procurement.
- Reducing the carbon footprint of construction logistics and transportation.
- Implementing circular economy concepts in material management.
- Future trends and innovations shaping the construction supply chain.

FAQ:

Qualifications required for registering to this course?

There are no requirements.

How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

Something to think about:

How might the principles of a circular economy fundamentally reshape traditional linear supply chain models in the construction industry?

What unique qualities does this course offer compared to other courses?

This course distinguishes itself by offering a holistic and deeply integrated perspective on the construction supply chain, moving far beyond siloed discussions of procurement or logistics. Its core strength lies in connecting high-level strategic planning with the granular details of on-site operational execution. While other programs may focus on one aspect, we emphasize the critical interplay between supplier relationship management, lean construction methodologies, digital transformation, and risk mitigation. The curriculum is uniquely structured to address the modern challenges of the industry, with dedicated modules on sustainability and the implementation of circular economy principles, preparing participants not just for current demands but for the future of construction. The learning is grounded in practical application, using complex, real-world case studies that mirror the multifaceted problems professionals face daily. This approach ensures that participants leave not with abstract theories, but with a strategic framework and actionable tools to optimize efficiency, reduce costs, and build more resilient and competitive supply chains in their own projects.