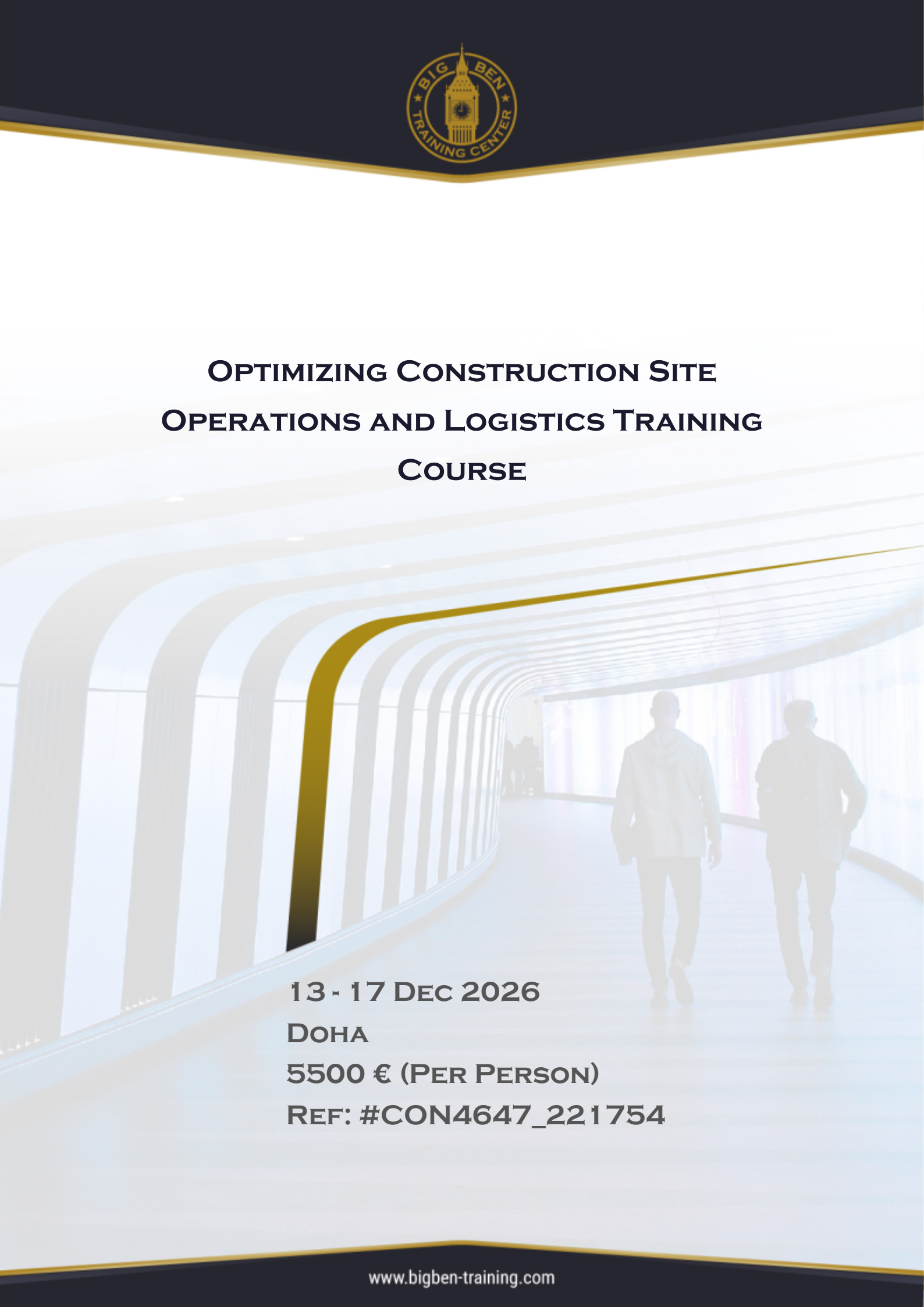
Optimizing Construction Site Operations and Logistics Training Course



13 - 17 Dec 2026

Doha

5500 € (Per Person)

Ref: #CON4647_221754

Course Introduction / Overview:

This comprehensive training course is designed to address the critical challenges of modern construction projects, focusing on the seamless integration of site operations and logistics management. In an industry where delays and cost overruns are common, mastering the flow of materials, equipment, and personnel is paramount to success. This program moves beyond traditional methods to instill a strategic mindset for optimizing the entire construction value chain. Participants will delve into advanced concepts, drawing from principles discussed by leading academics like Lauri Koskela, a pioneer in applying lean theory to construction. We will explore frameworks for efficiency and waste reduction, similar to those detailed in seminal works like "Construction Supply Chain Management". This course offered by BIG BEN Training Center provides a robust framework for planning, executing, and controlling site logistics to enhance productivity, ensure safety, and improve project profitability. It equips professionals with the skills to manage complex supply chains, implement just-in-time delivery systems, and leverage technology for data-driven decision-making, ensuring projects are completed on time and within budget.

Target Audience / This training course is suitable for:

- Project Managers.
- Construction Managers.
- Site Superintendents and Foremen.
- Logistics and Supply Chain Coordinators.
- Procurement Managers.
- Site Engineers.
- Operations Managers.
- Project Planners and Schedulers.
- Contract Administrators.
- Quality Control and Safety Officers.

Target Sectors and Industries:

- Commercial and Residential Construction.
- Industrial and Manufacturing Plant Construction.
- Civil Engineering and Infrastructure Projects.
- Real Estate Development.
- Oil and Gas Facility Construction.
- Renewable Energy Projects.
- Governmental bodies and public works agencies.
- Specialty Trade Contracting.

Target Organizations Departments:

- Project Management Office (PMO).
- Operations Management.
- Logistics and Supply Chain Management.
- Procurement and Sourcing.
- Engineering and Design.
- Site Management and Field Operations.
- Health, Safety, and Environment (HSE).
- Planning and Scheduling.
- Contracts and Commercial Management.

Course Offerings:

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

- Develop strategic site layout and traffic management plans.
- Implement just-in-time (JIT) principles for material and equipment delivery.
- Optimize procurement and vendor management processes for construction projects.
- Analyze and improve the construction supply chain for maximum efficiency.
- Apply lean construction techniques to minimize waste and operational delays.
- Utilize technology for tracking materials, equipment, and workforce productivity.
- Conduct comprehensive logistical risk assessments and develop mitigation strategies.
- Enhance coordination between subcontractors, suppliers, and on-site teams.
- Implement effective inventory and materials management systems on-site.
- Improve project scheduling and resource allocation through logistical optimization.

Course Methodology:

The training methodology for this course is designed to be highly interactive and practical, ensuring that participants can immediately apply the learned concepts to their work environments. BIG BEN Training Center believes in an immersive learning experience that goes beyond theoretical lectures. The program heavily incorporates real-world case studies of successful and challenging construction projects, allowing for in-depth analysis of logistical strategies. Participants will engage in collaborative group workshops to design site layout plans and solve complex supply chain scenarios. Interactive simulations will be used to model the impact of logistical decisions on project timelines and budgets. The training includes expert-led discussions, practical exercises, and peer-to-peer knowledge sharing sessions. Continuous feedback is provided by the instructor to guide learning and skill development. This hands-on, problem-solving approach ensures a deep understanding of construction operations and logistics optimization, empowering participants with actionable skills and strategic insights.

Course Agenda (Course Units):

Unit One: Foundations of Construction Logistics and Site Operations

- Introduction to construction logistics management.
- The role of logistics in the project lifecycle.
- Key performance indicators (KPIs) for site operations.
- Understanding the construction supply chain.
- Challenges in traditional construction logistics.
- Principles of site planning and organization.
- Stakeholder management and communication in logistics.

Unit Two: Strategic Planning for Site Logistics

- Developing a comprehensive logistics plan.
- Site layout design for optimal material flow.
- Planning for equipment and machinery logistics.
- Procurement strategies and supplier selection.
- Inventory management and control principles.
- Just-in-Time (JIT) delivery planning.
- Integrating logistics with the master project schedule.

Unit Three: On-Site Execution and Management

- Daily management of site operations.
- Effective material receiving, storage, and handling.
- On-site traffic and pedestrian flow management.
- Coordinating subcontractors and material deliveries.
- Waste management and reverse logistics.
- Workforce logistics and allocation.
- Managing site security and access control.

Unit Four: Technology and Innovation in Construction Logistics

- Introduction to construction management software.
- Building Information Modeling (BIM) for logistics planning.
- Using GPS and RFID for material and asset tracking.
- The role of drones in site monitoring and surveying.
- Data analytics for operational performance improvement.
- Implementing lean construction principles on-site.
- Value stream mapping for construction processes.

Unit Five: Safety, Compliance, and Future Trends

- Integrating health and safety into logistics planning.
- Environmental regulations and sustainable practices.
- Risk assessment and mitigation for the construction supply chain.
- Managing logistical disruptions and building resilience.
- Continuous improvement and Kaizen in site operations.
- The future of automation and robotics in construction logistics.
- Final project workshop and action planning.

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 lean manufacturing be adapted to overcome the unique variability and unpredictability of a large-scale construction site?

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

This training course distinguishes itself by offering a holistic and integrated perspective on construction site management, viewing logistics not as a standalone function but as the central nervous system of the entire project. While many courses focus on either project management theory or specific operational tasks, this program bridges the critical gap between strategic planning and on-the-ground execution. It places a strong emphasis on proactive and data-driven decision-making, moving beyond reactive problem-solving. Participants will gain deep insights into applying advanced methodologies like lean construction and value stream mapping, which are often discussed theoretically but rarely taught with a practical, implementation-focused approach for the construction environment. The curriculum is uniquely structured to build resilience within the construction supply chain, equipping managers to anticipate and mitigate disruptions rather than just react to them. By focusing on the strategic optimization of material, information, and financial flows, the course provides a comprehensive skill set that directly translates into reduced costs, improved timelines, and enhanced project quality, offering a significant competitive advantage.