Integrated Construction Project Delivery (IPD) Training Course

Professional Development Training Course Outline

Category	Construction Institute	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Integrated Construction Project Delivery (IPD) is a next-generation collaborative project delivery framework transforming the global construction industry through early stakeholder integration, shared risk-reward models, digital innovation, lean construction principles, and high-performance project management. Integrated Construction Project Delivery (IPD) Training Course equips construction professionals with the knowledge and practical skills required to implement IPD methodologies, Building Information Modeling (BIM), Lean Integrated Project Delivery, collaborative contracting, and data-driven construction strategies. Participants will explore how IPD improves project efficiency, cost optimization, quality management, sustainability performance, and stakeholder alignment across complex construction projects.

The IPD Training Course focuses on emerging industry trends including smart construction, digital twins, AI-powered project management, sustainable infrastructure development, agile construction management, and collaborative delivery ecosystems. Through real-world applications and global case studies, learners will understand how leading organizations achieve accelerated project delivery, reduced waste, enhanced communication, and improved project outcomes by adopting integrated approaches that align owners, architects, engineers, contractors, and technology partners from project inception to completion.

Programme Curriculum

Integrated Construction Project Delivery (IPD) Training Course

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practical skills required to implement IPD methodologies, Building Information Modeling (BIM), Lean Integrated Project Delivery, collaborative contracting, and data-driven construction strategies. Participants will explore how IPD improves project efficiency, cost optimization, quality management, sustainability performance, and stakeholder alignment across complex construction projects.

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Course Duration

5 days

Course Objectives

By completing this Integrated Construction Project Delivery (IPD) Training Course, participants will be able to:

1. Understand the principles and evolution of Integrated Project Delivery (IPD) and its role in modern construction transformation.
2. Apply collaborative contracting strategies to improve project alignment and stakeholder engagement.
3. Develop expertise in Lean Construction methodologies for eliminating waste and maximizing value.
4. Implement BIM-enabled IPD workflows for improved design coordination and project visualization.
5. Utilize digital construction technologies including AI, IoT, cloud collaboration platforms, and digital twins.
6. Manage shared risk and reward frameworks to enhance project accountability.
7. Improve cost control, schedule optimization, and productivity performance using integrated approaches.
8. Apply agile project management techniques within construction delivery environments.
9. Enhance communication through integrated team collaboration and stakeholder management models.
10. Develop strategies for sustainable construction and ESG-aligned project delivery.
11. Analyze global IPD success stories and implement industry best practices.
12. Create effective IPD implementation roadmaps for organizations and construction projects.
13. Build leadership capabilities for driving future-ready smart construction ecosystems.

Target Audience

1. Construction project managers and project directors
2. Architects, engineers, and design consultants
3. Contractors, subcontractors, and construction executives
4. BIM managers and digital construction specialists
5. Owners, developers, and real estate professionals
6. Quantity surveyors, cost consultants, and commercial managers
7. Government infrastructure and public works professionals
8. Construction technology leaders and innovation managers

Course Modules

Module 1: Fundamentals of Integrated Project Delivery (IPD)

- Evolution from traditional delivery models to **collaborative IPD frameworks**
- Core principles of IPD

- Comparison of IPD with Design-Bid-Build and Design-Build models
- Roles and responsibilities within integrated project teams
- IPD maturity assessment and implementation challenges
- **Case Study: Sutter Health Medical Center, USA**

Module 2: IPD Contracting and Collaborative Business Models

- Integrated agreements and multi-party contracting structures
- Shared risk and reward mechanisms
- Alliance contracting and relational contracting approaches
- Financial transparency and open-book management
- Legal considerations in IPD implementation
- **Case Study: IPD Hospital Projects in California**

Module 3: Lean Construction and Value Optimization

- Lean principles for integrated project delivery
- Last Planner System and collaborative planning
- Value stream mapping and waste reduction
- Continuous improvement strategies
- Productivity enhancement through Lean workflows
- **Case Study: Toyota Production System Influence on Construction**

Module 4: BIM Integration and Digital Construction Technologies

- BIM as a foundation for IPD collaboration
- Common Data Environment (CDE) management
- 4D scheduling and 5D cost integration
- Digital twins and real-time project intelligence
- AI-driven construction analytics
- **Case Study: London Heathrow Airport Expansion Projects**

Module 5: Integrated Team Leadership and Collaboration

- Building high-performance project teams
- Collaborative leadership models
- Communication frameworks for integrated delivery
- Conflict resolution and negotiation strategies
- Psychological safety and innovation culture
- **Case Study: Stanford University Medical Center Projects**

Module 6: Sustainable and Smart Construction through IPD

- Sustainable project delivery frameworks
- ESG principles in construction management
- Carbon reduction strategies
- Green building integration
- Smart construction technologies and automation
- **Case Study: Net Zero Building Projects**

Module 7: IPD Project Controls, Performance Management, and Analytics

- Integrated cost and schedule management
- Real-time performance monitoring
- Data-driven decision-making
- Risk management and predictive analytics
- Key Performance Indicators (KPIs) for IPD success
- **Case Study: Large Infrastructure Mega Projects**

Module 8: IPD Implementation Strategy and Future Trends

- Developing an IPD adoption roadmap
- Organizational change management
- Overcoming implementation barriers
- Future trends: AI, automation, robotics, and digital twins
- Creating a construction innovation strategy
- **Case Study: Global Smart City Development Projects**

Training Methodology

This course employs a participatory and hands-on approach to ensure practical learning, including:

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

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