Integrated Project Delivery (IPD) Training Course

Professional Development Training Course Outline

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

Course Introduction

Integrated Project Delivery (IPD) is a collaborative construction delivery model that unifies all key stakeholders owners, architects, engineers, and contractors under a single contract framework to optimize project outcomes. It leverages lean construction principles, BIM (Building Information Modeling), digital collaboration tools, and shared risk-reward structures to improve efficiency, reduce waste, and enhance project predictability. IPD is rapidly becoming a global standard in modern construction project management, especially in large-scale infrastructure, healthcare facilities, commercial developments, and smart city projects.

Integrated Project Delivery (IPD) Training Course is designed to equip professionals with the knowledge and practical skills required to implement IPD successfully, focusing on contractual alignment, stakeholder integration, Lean Six Sigma construction methods, and BIM-enabled workflows. Participants will gain deep insights into risk-sharing models, collaborative governance, value engineering, and project lifecycle optimization to deliver high-performance construction projects.

Programme Curriculum

Integrated Project Delivery (IPD) Training Course

Introduction

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Course Duration

5 days

Course Objectives

1. Master Integrated Project Delivery (IPD) framework and principles
2. Understand Lean Construction and Lean Project Management methodologies
3. Apply BIM (Building Information Modeling) in collaborative environments
4. Analyze risk-sharing and reward-sharing contractual models
5. Implement multi-stakeholder collaboration strategies
6. Optimize project lifecycle management using digital tools
7. Enhance construction productivity through workflow integration
8. Develop high-performance project governance structures
9. Utilize real-time data analytics in construction decision-making
10. Improve cost control and budget optimization techniques
11. Strengthen cross-functional communication in project teams
12. Apply value engineering and waste reduction strategies
13. Integrate AI, IoT, and digital twins in modern IPD projects

Target Audience

1. Project Managers in construction and infrastructure
2. Architects and Design Consultants
3. Civil, Structural, and MEP Engineers
4. Construction Contractors and Site Managers
5. Real Estate Developers and Investors
6. Government Infrastructure Planners
7. Quantity Surveyors and Cost Engineers
8. BIM Specialists and Digital Construction Professionals

Course Modules

Module 1: Fundamentals of Integrated Project Delivery (IPD)

- IPD principles and evolution
- Contractual frameworks and alliance models
- Stakeholder integration strategies
- Risk and reward sharing mechanisms
- Project alignment structures
- **Case Study:** Stanford Medical Center IPD implementation success story

Module 2: Lean Construction & Process Optimization

- Lean thinking in construction
- Waste elimination techniques

- Last Planner System (LPS)
- Workflow optimization strategies
- Continuous improvement cycles
- **Case Study:** Toyota Production System applied to construction projects

Module 3: BIM & Digital Construction Integration

- BIM Level 2 and Level 3 applications
- Cloud-based collaboration platforms
- Clash detection and coordination
- 4D/5D BIM modeling
- Digital twin integration
- **Case Study:** London Crossrail BIM integration project

Module 4: Collaborative Contracting & Risk Sharing

- IPD contractual structures
- Multi-party agreements
- Risk pooling mechanisms
- Incentive-based compensation models
- Legal frameworks in IPD
- **Case Study:** Sutter Health Hospital IPD contract model

Module 5: Project Governance & Stakeholder Management

- Governance frameworks in IPD
- Decision-making hierarchies
- Stakeholder engagement models
- Conflict resolution mechanisms
- Performance accountability systems
- **Case Study:** NASA collaborative project governance model

Module 6: Cost Management & Value Engineering

- Target costing techniques
- Value engineering principles
- Cost transparency models
- Budget forecasting tools
- Financial risk mitigation
- **Case Study:** Heathrow Terminal 5 cost optimization strategy

Module 7: Digital Transformation in IPD

- AI in construction management
- IoT-enabled job sites
- Predictive analytics for scheduling
- Cloud-based project ecosystems
- Automation in construction workflows
- **Case Study:** Smart City Dubai digital construction ecosystem

Module 8: Advanced IPD Implementation Strategies

- Scaling IPD across mega-projects
- Performance benchmarking systems
- Sustainability integration (ESG standards)
- Lifecycle asset management
- Future trends in construction delivery
- **Case Study:** Singapore Changi Airport expansion IPD model

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:

Register Online Now

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