Manufacturing Project Control Training Course

Professional Development Training Course Outline

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

Course Introduction

In the competitive landscape of modern manufacturing, effective project control is essential for achieving operational excellence, cost efficiency, and timely delivery. Manufacturing Project Control Training Course provides participants with the tools, techniques, and methodologies to manage complex projects from initiation to completion. This course integrates practical strategies, industry-standard frameworks, and real-world case studies to ensure participants gain hands-on expertise in resource allocation, scheduling, risk management, and performance monitoring. By focusing on precision, quality, and efficiency, this training empowers professionals to deliver projects that align with organizational goals while minimizing risks and optimizing operational outcomes.

The training emphasizes data-driven decision-making, cross-functional collaboration, and continuous improvement within manufacturing processes. Participants will develop the ability to implement robust project control measures, utilize advanced project tracking systems, and apply analytical tools for performance evaluation. The course is designed to equip project managers, engineers, and team leaders with actionable insights that enhance productivity, reduce operational waste, and foster innovation in project execution. By bridging theoretical knowledge with practical application, this course positions participants to lead manufacturing projects with confidence, efficiency, and measurable results.

Programme Curriculum

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Course Objectives

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

1. Apply advanced project control techniques to manufacturing projects.
2. Implement resource planning strategies for optimal efficiency.
3. Utilize project scheduling tools to improve delivery timelines.
4. Manage project budgets effectively and reduce cost overruns.
5. Analyze project risks and develop mitigation strategies.
6. Monitor project performance using KPIs and metrics.
7. Integrate quality control measures within project execution.
8. Enhance cross-functional collaboration in manufacturing projects.
9. Apply Lean Manufacturing and Six Sigma principles in project control.
10. Optimize supply chain coordination for project success.
11. Leverage digital project management tools and dashboards.
12. Interpret project data to support strategic decision-making.
13. Conduct post-project evaluations for continuous improvement.

Organizational Benefits

- Improved project delivery timelines.
- Reduced operational costs and waste.
- Enhanced resource utilization and productivity.
- Strengthened risk management processes.
- Better alignment of projects with organizational strategy.
- Increased cross-functional communication.

- Streamlined supply chain coordination.
- Improved product quality and compliance.
- Data-driven decision-making capabilities.
- Greater project transparency and accountability.

Target Audiences

1. Manufacturing Project Managers
2. Production Engineers
3. Quality Assurance Specialists
4. Supply Chain Coordinators
5. Operations Managers
6. Plant Managers
7. Industrial Engineers
8. Project Control Analysts

Course Duration: 10 days

Course Modules

Module 1: Introduction to Manufacturing Project Control

- Overview of manufacturing project management
- Importance of project control in manufacturing
- Key project control metrics
- Tools and software for project monitoring
- Case study: Successful project control implementation in an automotive plant
- Hands-on activity: Assessing current project control practices

Module 2: Project Planning and Scheduling

- Developing detailed project plans
- Scheduling techniques for manufacturing projects
- Gantt charts and critical path analysis
- Resource allocation planning
- Case study: Reducing lead time in production projects
- Exercise: Building a project schedule

Module 3: Cost and Budget Management

- Estimating project costs accurately
- Budgeting for manufacturing projects
- Cost tracking and variance analysis
- Cost reduction strategies
- Case study: Cost control in a large-scale electronics project
- Exercise: Preparing a project budget

Module 4: Risk Management in Manufacturing Projects

- Identifying project risks
- Risk assessment and prioritization
- Mitigation strategies and contingency planning
- Monitoring and reporting risks
- Case study: Minimizing production downtime risks
- Exercise: Risk matrix development

Module 5: Resource and Capacity Management

- Optimizing human resources allocation
- Equipment and material planning
- Capacity utilization strategies
- Balancing workload and productivity
- Case study: Resource optimization in a bottling plant
- Exercise: Resource allocation simulation

Module 6: Quality and Compliance Control

- Integrating quality control in project management
- Manufacturing standards and regulations
- Quality assurance tools and techniques
- Continuous improvement processes
- Case study: Implementing ISO standards in production
- Exercise: Quality audit checklist creation

Module 7: Performance Monitoring and KPIs

- Key performance indicators for manufacturing projects
- Tracking project progress effectively
- Reporting and dashboards
- Data-driven performance analysis
- Case study: KPI-driven improvement in a textile plant
- Exercise: Creating a KPI dashboard

Module 8: Lean Manufacturing and Six Sigma Integration

- Lean principles for project efficiency
- Six Sigma methodologies for defect reduction
- Process mapping and waste elimination
- Continuous improvement in manufacturing projects
- Case study: Lean implementation in an assembly line
- Exercise: Process improvement simulation

Module 9: Supply Chain and Procurement Management

- Coordination with suppliers and vendors
- Inventory management techniques
- Procurement strategies for project efficiency
- Risk management in supply chain
- Case study: Supplier collaboration in a chemical plant
- Exercise: Supply chain optimization scenario

Module 10: Digital Project Management Tools

- Project management software overview
- Dashboard reporting and analytics
- Data visualization for decision-making
- Integration with ERP and MES systems
- Case study: Digital project management in automotive production
- Exercise: Software tool hands-on simulation

Module 11: Change Management in Projects

- Managing project scope changes

- Communication strategies for change
- Impact analysis and decision-making
- Stakeholder engagement techniques
- Case study: Managing scope changes in a machinery plant
- Exercise: Change impact assessment

Module 12: Communication and Collaboration

- Effective communication strategies
- Team collaboration tools
- Conflict resolution in project teams
- Cross-functional teamwork best practices
- Case study: Collaborative project success in electronics manufacturing
- Exercise: Team collaboration simulation

Module 13: Post-Project Evaluation and Lessons Learned

- Conducting project audits
- Capturing lessons learned
- Performance review techniques
- Reporting and knowledge transfer
- Case study: Post-project evaluation in a pharmaceutical plant
- Exercise: Lessons learned documentation

Module 14: Advanced Analytics for Project Control

- Data analysis for manufacturing projects
- Predictive analytics and forecasting
- Reporting insights for decision support
- Integrating analytics in project planning
- Case study: Using analytics to predict production delays
- Exercise: Predictive analysis using sample project data

Module 15: Capstone Case Study Project

- Comprehensive project control simulation
- Applying all course concepts

- Group collaboration and problem-solving
- Presentation of project outcomes
- Evaluation by instructors
- Hands-on exercise: Real-world project control scenario

Training Methodology

- Interactive lectures and discussions
- Hands-on exercises and simulations
- Real-world case study analysis
- Group projects and team-based learning
- Practical assignments using project control software
- Continuous assessment and feedback

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

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