Advanced Quality Planning and Control Training Course

Professional Development Training Course Outline

Category	Quality Assurance and ISO standards	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Advanced Quality Planning and Control is a vital process that enables organizations to build high-quality products, reduce operational risks, and ensure customer satisfaction through robust planning strategies. Advanced Quality Planning and Control Training Course focuses on the essential methodologies of Advanced Product Quality Planning (APQP), Failure Mode and Effects Analysis (FMEA), Statistical Process Control (SPC), Measurement System Analysis (MSA), and Control Plans. The program equips professionals with the knowledge and skills to integrate effective quality planning processes across all levels of manufacturing and service operations.

In today?ÇÖs competitive market, advanced quality management systems are critical to meeting international standards, driving continuous improvement, and maintaining customer trust. By attending this course, participants will learn how to implement data-driven decision-making, align quality objectives with business goals, and apply advanced tools for problem-solving and process optimization. With a strong emphasis on real-world applications, this training ensures that learners can directly translate knowledge into measurable organizational success.

Programme Curriculum

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Course Objectives

1. Understand the principles of Advanced Product Quality Planning (APQP).
2. Apply key tools including FMEA, SPC, MSA, and Control Plans.
3. Enhance customer satisfaction through structured quality planning.
4. Minimize production risks with preventive quality strategies.
5. Optimize manufacturing efficiency through quality control techniques.
6. Gain practical insights into supplier quality management.
7. Align organizational goals with international quality standards.
8. Implement data-driven decision-making in quality control.
9. Strengthen cross-functional collaboration for quality improvement.
10. Identify and mitigate potential failures in early product development.
11. Improve product lifecycle management using advanced planning methods.
12. Drive continuous improvement through root cause analysis.
13. Apply advanced case studies for real-world quality planning.

Organizational Benefits

1. Reduced production costs through preventive quality measures.
2. Improved customer satisfaction and loyalty.
3. Enhanced compliance with international quality standards.
4. Increased efficiency in product development processes.
5. Strengthened supplier partnerships and performance.
6. Improved cross-departmental communication.
7. Higher operational efficiency through data-driven decisions.
8. Greater competitiveness in the global marketplace.
9. Reduced product recalls and warranty claims.
10. Sustainable culture of continuous improvement.

Target Audiences

1. Quality Managers and Quality Engineers
2. Manufacturing Supervisors and Production Managers
3. Process Improvement Specialists
4. Supplier Quality Assurance Professionals
5. Project Managers involved in product development
6. R&D Engineers and Technical Staff
7. Operations Managers and Plant Heads
8. Professionals preparing for ISO and IATF certifications

Course Duration: 5 days

Course Modules

Module 1: Introduction to Advanced Quality Planning

- Fundamentals of Advanced Product Quality Planning (APQP)
- Key stages of APQP lifecycle
- Integration of quality planning in product development
- Importance of risk prevention in manufacturing
- International standards and guidelines overview
- Case Study: APQP implementation in the automotive industry

Module 2: Failure Mode and Effects Analysis (FMEA)

- Principles of FMEA and risk assessment
- Identifying and prioritizing potential failures
- Developing effective corrective actions
- Cross-functional team collaboration for FMEA
- Linking FMEA with APQP stages
- Case Study: FMEA application in electronic systems

Module 3: Statistical Process Control (SPC)

- Introduction to SPC principles and charts
- Analyzing process capability and stability
- Identifying trends and variations in data
- Using SPC for continuous improvement
- Integrating SPC with manufacturing systems
- Case Study: SPC in pharmaceutical manufacturing

Module 4: Measurement System Analysis (MSA)

- Importance of measurement system reliability
- Understanding bias, linearity, stability, and repeatability
- Conducting Gauge R&R studies
- Ensuring accuracy in quality data collection
- MSA?ÇÖs role in quality control decisions
- Case Study: MSA in precision engineering

Module 5: Control Plans Development

- Role of control plans in product quality
- Creating structured control plans
- Linking control plans with FMEA and SPC
- Customer-specific requirements in control planning
- Using control plans for process standardization
- Case Study: Control plan in automotive components

Module 6: Supplier Quality Management

- Supplier quality standards and expectations

- Evaluating supplier performance metrics
- Strategies for supplier development and training
- Collaboration tools for supplier quality improvement
- Aligning supplier quality with organizational goals
- Case Study: Supplier quality challenges in global sourcing

Module 7: Continuous Improvement Tools

- Lean Six Sigma integration with APQP
- Root cause analysis methods
- Process optimization and cost reduction
- Data-driven problem-solving techniques
- Enhancing operational efficiency
- Case Study: Continuous improvement in consumer goods

Module 8: Integrated Quality Planning Applications

- Linking APQP, FMEA, SPC, MSA, and Control Plans
- Role of quality planning in new product launches
- Digital tools and software in quality planning
- Building a culture of proactive quality
- Challenges and solutions in advanced quality control
- Case Study: Integrated APQP in aerospace manufacturing

Training Methodology

- Instructor-led classroom training with interactive discussions
- Practical workshops and hands-on exercises
- Real-world industry case studies and simulations
- Group activities for cross-functional collaboration
- Assessments and feedback sessions for continuous improvement

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
21 Sep 2026	25 Sep 2026	Online	$1,000
21 Sep 2026	25 Sep 2026	Physical	$1,500
21 Sep 2026	25 Sep 2026	Physical	$0
21 Sep 2026	25 Sep 2026	Physical	$0
21 Sep 2026	25 Sep 2026	Physical	$0
21 Sep 2026	25 Sep 2026	Physical	$0
21 Sep 2026	25 Sep 2026	Physical	$0
21 Sep 2026	25 Sep 2026	Physical	$0

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

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