Advanced Product Quality Planning (APQP)

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Product · Meticulous Planning · Error Prevention

Learning made Simple, Visual, and Interactive

This course is designed to provide learners with an understanding of the Advanced Product Quality Planning (APQP) process, the different phases and activities in APQP, the status review by the multidisciplinary team, and the need for records retention.

Credit Hours 2.5

Learning Objectives

- Understand the various steps in APQP in project management.
- Relate the stages in the PDCA cycle with the APQP phases.
- Illustrate the benefit of simultaneous engineering in the product development process.
- Explain the inputs and outputs in each phase of APQP.
- Understand how the APQP status review is implemented.
- Apply real-world industrial scenarios to create the APQP timing chart.

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I. APQP Methodology

- **Team Formation**
- **PDCA Cycle**
- **APQP Timing Planning**
- **Learning Moment 1**
- **Simultaneous Engineering**

II. APQP Process

- **APQP Phases**
  - o Phase 1: Plan and Define Program
  - o Phase 2: Product Design and Development
  - o Phase 3: Process Design and Development
- **APQP Timing Chart**
  - o Phase 1 Activities
  - o Phase 2 Activities
- **APQP Status Review**
  - o Records Retention

III. Case Study

- **Phase 1: Plan and Define Program**
- **Phase 3: Process Design and Development**
- **Phase 4: Process Validation**
- **Phase 5: Feedback, Assessment, and Corrective Action**