COURSE TABLE OF CONTENTS

APQP (Advanced Product Quality Planning)

OEM: Koenig Original • Duration: 2 Days (16 hrs)

COURSE MODULES & TOPICS

Module 1: APQP Fundamentals and Programme Planning

- Purpose, scope, benefits and evolution of APQP
- Customer expectations and translating requirements
- Cross-functional team roles and project governance
- Programme timing plan, milestones and deliverables
- Risk management, feasibility review and change management

Module 2: Plan and Define Programme

- Customer inputs, market and benchmark information
- Product/process assumptions and quality objectives
- Preliminary Bill of Materials and process flow
- Special characteristics and risk identification
- Management support, resource planning and approval

Module 3: Product Design and Development

- Design requirements, reviews and verification
- DFMEA overview and design-risk reduction
- Design for manufacturability and assembly (DFM/DFA)
- Prototype build and prototype Control Plan
- Engineering drawings, specifications and change control

Module 4: Process Design and Development

- Manufacturing process flow chart and layout
- PFMEA and process-risk mitigation
- Pre-launch and production Control Plans
- Work instructions and packaging specifications
- Measurement-system planning and equipment requirements

Module 5: Product and Process Validation

- Production trial run and validation planning
- Measurement System Analysis (MSA) and SPC
- Initial process studies and capability assessment
- Production Part Approval Process (PPAP) overview
- Run-at-Rate, capacity verification and launch readiness

Module 6: Feedback, Assessment and Corrective Action

- Early production containment and safe launch concepts
- Customer feedback and field-performance monitoring
- Corrective action and continuous improvement
- Review of APQP effectiveness and closure of actions

Module 7: APQP Integration and Practical Deployment

- Integration with PFMEA, Control Plan, MSA, SPC and PPAP
- Supplier APQP and readiness monitoring
- APQP status reporting and management review
- Implementation challenges and good practices

Module 8: Practical Exercises and Case Studies

- Prepare APQP timing plan with milestones and deliverables
- Map APQP deliverables to PFMEA, Control Plan, MSA, SPC, PPAP
- Review launch scenario, identify gaps and prioritise actions
- Discuss supplier APQP readiness using a case study