Lesson 0 | Overview of APQP
• Overview of the five phases of the APQP Process.

Lesson 1 | Phase 1: Plan and Define the Program
• Information and data are compiled to build a business case.
• The output of this phase defines specifically what product will be studied.

Lesson 2 | Phase 2: Product Design and Development
• The design of the product is fleshed out.
• After the design is verified, a prototype is built, specifications developed and inputs for the process design are generated.

Lesson 3 | Phase 3: Process Design and Development
• The manufacturing process for the product is designed.
• Major outcomes include development of the process flow and layout.
• Additionally, a Characteristics Matrix, PFMEA, Pre-Launch Control Plan and Process Instructions are developed.

Lesson 4 | Phase 4: Product and Process Validation
• The process and the product design are validated.
• The output product from the production run is used to evaluate the measurement system and check the process capability.

Lesson 5 | Phase 5: Feedback Assessment & Corrective Action
• Start the cycle of continuous improvement.
• Control charts can be used to identify special causes of variation, capability studies and the use of design of experiments can help reduce common cause variation.
• Work to ensure the product fully meets customer’s needs.

Lesson 6 | (Unofficial) Phase 6: Control Plans
• Identify control factors, control points and control methods for the product and its corresponding manufacturing process.
• Develop a comprehensive Control Plan.

Challenge
• An assessment of the learner’s progress in this course.