

General courses

- GEN02** **Health and Safety in the Manufacturing Environment**
Theoretical and practical applications of how health and safety affects employees in the workplace.
- GEN03** **Essential Communication Skills**
Practical communication techniques covering active listening skills, cross cultural communication and teamwork.
- GEN04** **Workplace Writing Skills**
Using a computer to produce reports, a structured approach to writing so information is presented clearly.
- GEN06** **Quality Management**
Quality systems, principles and tools. Project based course relevant to participants' workplace.
- GEN07** **Team Building**
Communication and leadership skills, including facilitation skills, analyzing tasks and delegating tasks effectively.
- GEN08** **Communication for Team Leaders**
Communicating to improve team performance; includes giving effective feedback, oral instructions and delegation.
- GEN09** **Statistical Process Control**
Using statistical process control tools to effectively analyse data collected for quality control and improvement.
- GEN10** **Project Management**
Planning, managing and reviewing projects; includes scoping requirements, costings, timing and evaluation.

Engineering courses

- ENG01** **Engineering Measurement**
Interpreting engineering drawings, understanding measurement and handling and maintaining measuring devices.
- ENG02** **Selection of and Use of Basic Engineering Hand Tools**
Using hand-held engineering tools to assemble and service machines safely.
- ENG03** **Engineering Materials (Part 1)**
The properties and characteristics of typical engineering materials including metals, polymers and wood.
- ENG04** **Hydraulics & Pneumatics**
Safely using hydraulics and pneumatics, including understanding the operating principles of power systems.
- ENG05** **Precision Engineering**
How to set up a production run, change dies and ensure the efficient running of machinery and equipment.
- ENG06** **Engineering Workshop Practice**
Project based course to learning safe machining practices including drilling, turning, milling and grinding operations.

Plastics processing courses

- PPT01** **Introduction to Plastics**
Introduction to the range of plastics materials commonly used and an overview of plastics processing methods.
- PPT02** **Chemical Properties of Plastics Materials**
Polymerisation, and physical properties, including melt flow characteristics and the effects of heating and cooling.
- PPT03** **Polymer Science**
Polymer morphology with a focus on the physical properties of polymers and how they can influence production.
- PPT04** **Production Trials**
Reviewing and analysing production trial results to identify aspects that require change.
- PPT05** **Property Relationships to Structure and Polymerisation**
Polymer structures and properties, effects of modifying plastics materials, test methods, and applications.
- PPT06** **Plastics Processing and Fabrication Technologies**
Principles of plastics processing and fabrication technologies, focusing on technical and commercial factors.
- PPT07** **Rheology and Calculating Output for Plastics Processing**
Understanding melt flow characteristics of polymer compounds, and calculating melt flow rates.
- PPT08** **Heat Transfer Calculations for Plastics Processing**
Thermal properties of molten polymers, and heat transfer factors. Calculations for energy balance in production.