



Short Courses

BIG STEM program will be running two short courses in Electronics Manufacturing and Reliability Engineering on the 26th April and 21st June at the Medway Campus.

Theory and Practices in Reliability Engineering

Expected delegates:

Production managers, Product development engineers, R&D engineers, Maintenance and Operational personnel.

Aim:

Develop an understanding of the key concepts and learn about best practices in reliability engineering

Objectives:

1. Understand the basics of reliability engineering.
2. Appreciate the need for a good reliability program.
3. Assess/understand the reliability issues at different stages of product life cycle.
4. Familiarise with different reliability assessment methods.
5. Experience the setup and execution of reliability testing.
6. Assess the key elements in a reliability program.

Lead-Free Soldering for Electronics Packaging

Expected delegates:

This course is designed for production and quality personnel who uses lead free soldering technology and are responsible for day-to-day running and maintaining of a surface mount assembly line. Knowledge gained from the course would help the individuals to reduce assembly defects and hence to increase the production yield. The course may also benefit material, equipment suppliers to have a better understanding of the issues and interactions of materials and process parameters in the assembly process.

Aim:

Provide an introduction to the issues of lead free soldering and learn the key processes and operating parameters.

Objectives:

1. Understand the basics of surface mount technology (SMT).
2. Familiarise with the key process parameters in stencil printing and reflow soldering.
3. Understand the key challenges in lead free soldering.
4. Experience the setup and operation in lab-based assembly facilities.
5. Appreciate the need for minimising soldering defects in the assembly line.

For more details and how to register please contact Jason at info@big-kent.org.uk