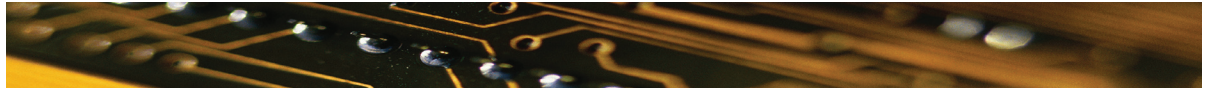




ISO 9001:2000
CERTIFIED

BGA Manufacturing, Inspection & Rework Skill Training



Electronics Manufacturing Training Center

Overview

Manufacturing with Ball Grid Array (BGA) packages generally offers high, first-pass process yields. However, process errors do occur and the likelihood of a solder joint defect (insufficient solder, bridging, solder balling, etc.) Under the BGA will require the need to remove and replace the BGA component. If BGA rework requires the removal of the component, special considerations must be taken into account. For instance, excessive heat or improper removal techniques used during the BGA component removal step has the potential to cause damage to surrounding lands, other components, or the PCB itself. In short, proper rework requires sound practices, proper tools and quality training.

Who Should Attend

This course is geared towards Manufacturing, Process and Quality Engineers responsible for implementing and/or controlling the BGA application and inspection process. Others who would benefit from this course are those person(s) responsible for training operators and technicians to perform BGA assembly inspection or control the manufacturing process.

Course Content

Introduction to BGA's

Upon successful completion of the course, the student will be able to correctly identify the different types of BGA components and the different assembly considerations that must be taken into account when using a specific type of BGA component.

BGA Rework Practices

Upon successful completion of the course, the student will be able to correctly perform rework procedures on assemblies with BGA components. Proper rework techniques covered will include the development of a removal and replacement profile, component removal, PWB site preparation, solder paste application, component placement and component reattachment.

Benefits

- Perform Individual BGA rework techniques in the EMPF Demonstration Factory
- Gain experience developing removal and replacement profiles during the hands-on portion of the instruction in the EMPF Demonstration Factory.

Duration

2 days

Registration

Contact the EMPF Training Center:
p: 610.362.1295 e: registrar@empf.org www.empf.org

*American Competitiveness Institute
One International Plaza, Suite 600
Philadelphia, PA 19113
p: 610.362.1200
f: 610.362.1290
www.aciusa.org
www.empf.org*

Contact the Helpline: 610.362.1320