

SPECIALIZED KNOWLEDGE FOR THE APPLICATION OF BGAs AND BOTTOM TERMINATION COMPONENT (BTCs) BASED ON IPC-7093 AND IPC-7095

Professional Training Course

Location: Microsolder Kft. Training Room, 1037 Budapest, Kiscsillag u. 18

Course Objective:

To provide essential knowledge and background information on the use and characteristics of hidden solder joint components such as BGAs, BTCs, and similar devices, including design and component selection considerations, soldering characteristics of circuit boards assembled with such components, reliability and inspection issues, common failure phenomena, root causes, and methods to prevent failures.

Course Method:

Theoretical training in Hungarian, accompanied by a slide presentation.

Participants will also have the opportunity to discuss practical issues they encounter and receive consultation.

Includes a practical demonstration of BGA removal and reattachment with visual inspection of results.

Who Is It For?

Technical staff, process and quality assurance engineers, employees, and managers at all levels who are involved with the application of hidden solder joint components (such as BGAs, BTCs) during the design and assembly processes of circuit boards.



Curriculum (Total Duration: 2 Days, 16 Hours)

- IPC-7093 and 7095 publications
- Evolution of SMD components
- BGA components
- Component type selection, BGA requirements
- Important characteristics to consider
- Panels and circuit boards
- Design considerations
- PCB manufacturing with BGAs
- Reliability issues
- Failures and failure analysis
- BTC components
- BTC characteristics and their implications
- Design considerations
- PCB manufacturing with BTCs
- Reliability issues
- Failures and failure analysis
- Practical session: BGA removal and reattachment, optical inspection

Knowledge Assessment and Certification:

Written final test, minimum passing score: 70%.

Participants who meet the requirements will receive a written certificate of course completion.

Microsolder Kft. is an IPC member, an authorized IPC distributor, an authorized IPC training center, and an IPC QML (Qualified Manufacturer Listing) auditor.