



Global Tech Sales & Services

Service, Sales, Parts and Engineering Solutions to the Industry

SMT and Wave Soldering

This course will provide the student the basic knowledge, the practice and experience, required on the SMT required soldering, including the Wave Soldering Machine, which will allow him (her) to operate the machines, generate programs and obtain solders that comply to the Electronic Industry specifications.

The student will be familiar with SMT and PTH processes. Our courses and seminars offer a valuable practical achievement, following the PBET standards. Each participant, after satisfactory completion of all course objectives, will receive a Competence Certificate.

Objectives: Utilizing a MPM Printing Machine, Reflow Oven, Wave Solder Machine, Tools, documentation, PCB's, Stencils and any other complementary instruments or articles, as well as the Instructor's demonstration, the student should:

- Follow manufacturer safety standards.
- Know all soldering operation terminology, definitions and purposes.
- Know all soldering joint types.
- Utilize printing machine menus and options.
- Know soldering paste characteristics, processes and controls.
- Know flux types and characteristics.
- Program soldering reflow process profiles.
- Program wave soldering machine profiles.
- Know how detect, prevent and resolve wave solder process problems.
- Know wave soldering operation, components and setup:
 - Fluxers types
 - Conveyors
 - Preheaters types
 - Solder pots
 - Wave types
 - How air knife
- Nitrogen utilization for inert atmosphere.
- Know lead-free solder characteristics.
- Know reflow oven operation, components and controls:
 - Machine elements, functions and controls
 - Reflow process
 - Process setup
 - Temperature profiles
 - Thermocouples
- Process error free PCB's

The Student should develop these functions according to MPM standards. Some of the options or functions will depend of equipment type.

Pre-requisites: Technician or Engineer

Machines: Wave Solder, Reflow Oven

Duration: 4-5 Days

Schedule: Flexible

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