



## TC906 – 4250 Hardware Maintenance

This three day course is intended to provide application, test development and service engineers with the necessary training to carry out diagnostics and routine maintenance on the 4250 range of test systems. The course adopts a practical "hands on" approach to fault finding which is backed up by informal lectures where appropriate.

On completion of the course the attendee should be capable of diagnosing faults to module level and in some cases to component level, also they will have a deeper understanding of the operation of the system hardware. Most courses are tailored to suit individual needs of attendees concentrating on the appropriate instrumentation used.

### Contents

- System Overview
  - Peripherals
  - System Computer
  - Test System
  - Power supplies and control
- Selfcheck
  - User interface and menu structure
  - Main self-check menu
  - Self-check fixture
- First line maintenance
  - Interpretation of self-check results.
  - Test point architecture.
  - Board removal.
- Routine maintenance
  - Fans & filters
  - System calibration
  - Main self-cal menu
  - Self cal results
  - Calibration of standards board

### Pre-requisites

To gain maximum benefit from this course, attendees should first have completed the *TC801 Applications Programming*, or at least have some understanding of the MTL programming language used on the 4200 series. No previous ATE knowledge is assumed but some experience of PC usage and computer operation in general would be beneficial as well as fault finding electronic circuits. Experience in using some test equipment would also be useful (e.g. DVM, counter/timer, waveform generator, oscilloscope etc).

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