

# **DIGITALISATION IN THE MEDICAL FIELD**

**Target group:** Engineers and Technicians working in a hospital maintenance workshop.

**On completion of the course you will be able:**

- To trouble shoot problems with digital equipment
- To carry out preventive maintenance
- 1st and 2nd line maintenance of digital equipment
- To communicate with equipment suppliers and maintenance departments about trouble shooting, part replacement and repairs of digital equipment.

**Content:**

- Switch and relay control
- Numbering systems
- Logic syntheses
- Solid state logic (TTL, CMOS, etc.)
- Noise and loading
- Encoders and decoders
- Relay drivers and delay devices,
- Counters
- Shift registers and arithmetic systems
- A/D and D/A converters
- Multiplexing
- Memory systems
- Memory Organisation
- Addressing
- Stack machines
- Digital arithmetic
- Digital communications
- Microprocessor development systems
- C language interface
- Development tools

**Schedule:**

Total duration                      4 modules of 1 week spread over 6 months

Number of participants 24 (maximum)