Aim of Course

To provide an introduction to the concept of sterilization and how autoclaves are used to achieve the desired results. It addresses the subject both from a theoretical perspective but has a strong practical element. The various issues covered range from a brief history and introduction, to a complete discussion regarding design and implementation and then the question of calibration and validation of performance is covered.

The time allocated is such that one day is spent on the introduction, history and design whilst days two and three cover all the calibration issues.

It is envisaged that day three will be practical and will allow those who attend to gain firsthand knowledge of how to perform the calibration and validation of an autoclave.

Each attendee must bring a scientific calculator.

Pre-Requisites for attending this course

- Temperature Metrology Part 1 is recommended (not a pre-requisite)

Course Overview

- Introduction
- History of Sterilization
- Autoclaving & Types of Sterilizers
- Types of Sterilizers continued
- Sterilization Process
- Instrumentation Requirements
- Instrument Accuracy, Pressure Gauges,
- Temperature gauges, Temperature Controllers & Recorders
- Instrument Calibration Methods and Equipment
- Autoclave Monitoring and Validation
- Commissioning, Quarterly & Annual Validation
- Practical Instrumentation Calibration
- Validation of an Autoclave

Who should attend

Anyone who has a direct interest in the use and correct performance of sterilizers and autoclaves.

Attendees are drawn from those who have little knowledge of sterilization but are responsible for the running of an autoclave; to those who understand the basic principles of sterilization but who wish to have a greater understanding of how to ensure that the machines operate in a satisfactory fashion, i.e. Calibration & Validation.
STERILIZER & AUTOCLAVE
(CONT.)

Course Duration

3 Days

Evaluation

Attendance of the course, daily tests and the passing of a final examination are required (counting typically 30% for Daily tests and 70% for the Final exam) in order to successfully complete this course.

The examination will be written approximately two weeks after the completion of the course.