



SHORT LEARNING PROGRAMME

THIS TRAINING IS PRESENTED BY TSHWANE UNIVERSITY OF TECHNOLOGY

MEDICAL EQUIPMENT MAINTENANCE

25 Apr to 30 May 2025

BRIEF DESCRIPTION:

This Short Learning Programme (SLP) is organized by the Clinical Engineering Group, Department of Electrical Engineering, Tshwane University of Technology (TUT), in partnership with Bildungswerk der Bayerischen Wirtschaft (bbw), gGmbH, Würzburg Germany. This SLP consists of a number of modules that deal with specific clinical equipment and will be suitable for staff already involved in clinical engineering and medical equipment maintenance activities. The programme consists of 15 modules, plus practical sessions which cover electromedical equipment commonly used in hospitals. This training course carries 11 CPD points awarded by Engineering Council of South Africa (ECSA), through the Clinical Engineering Association of South Africa (CEASA). Validation No: CEASA/001/MEM/20220714

PURPOSE OF THE PROGRAMME

The purpose of this short course is to equip technicians and engineers in the field of medical equipment maintenance with technical and clinical knowledge, as well as practical experience to effectively work in the field of medical equipment maintenance for both hospitals and medical equipment suppliers.

LEARNING OUTCOMES:

The following topic will be covered:

- Ethics in the clinical engineering profession
- Safety and hazard management
- Preventive maintenance management
- Corrective maintenance management
- Inventory and quality management
- Communication
- Electrocardiogram and ECG systems
- Blood pressure monitoring
- Pulse oximetry
- Patient monitors
- Defibrillators
- Ventilators
- Infusion and syringe pumps
- Electrosurgery and diathermy equipment
- Neonatal incubators and infant warmers
- Practical sessions on the Inspection and preventive maintenance (IPM) of the above-mentioned devices, the use of specialized testing equipment and simulators, including the electrical safety analyzer.

Certificate of competence will be issued to successful participants by TUT

WHO SHOULD ATTEND:

The programme is targeted at:

- Electronics engineers and technicians who wish to work in this field
- Technical assistants who do not have formal education in the field
- Biomedical and clinical engineering personnel
- Medical and nursing personnel
- Medical equipment maintainers
- Suppliers of medical equipment

ENTRY REQUIREMENTS:

There are no entry requirements, but participants should have sufficient reading, writing and verbal communication skills in English equivalent to a NQF level 6.

COST: R15000.00

DATE: 25 Apr – 30 May 2025

DELIVERY MODE: Online

REGISTRATIONS AND

ENQUIRIES: Tel: +2712 382 4087

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TECHNICAL ENQUIRIES:

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