MEDTECH PROGRAM OUTLINE 2025-2031

PROGRAM	OCCUPATIONAL EDUCATION INTERNATIONAL STUDY OUTLINE - ***MEDICAL TECHNOLOGY (MEDTECH) & HEALTHCARE INFORMATION TECHNOLOGY (HCIT) CERTIFICATION PROGRAM***
NAME	

NB: Exams shall be scheduled 5 – 10 days before the end of a study period.
The Occupational Education and Development Program (OEDP) is a work-based program, hence, purely oriented for the world of work (work-based). All certifications and exams on the OEDP program are industry ISO/ANSI accredited and approved by US Department of Defense (DoD) to meet directive 8140/8570.01-M requirements et al.

OEDP OBJECTIVE

The objective of the Occupational Education and Development Program (OEDP) is to advance a work-based virtuoso development education agenda for the world of work; The OEDP accomplishes this by ennobling on an industry-based, economic science methodology: a practicable education whose proof is existential viable, industry economic processes of production, distribution, consumption and management of goods or services; + advanced virtuoso training and occupational learning management methodologies + and engagement network.

In the aforementioned regard, the following industry occupational domain, is aligned according to OEDP Objectives and under the OEDP work-based and corporate development umbrella:

GLOBAL MEDICAL DEVICES MARKET SIZE IS EXPECTED TO REACH $657.98 BY 2028 FROM $455.34 IN 2021 SAYS GLOBE NEWSWIRE

KEY PLAYERS LIKE MEDTRONIC PLC, ABBOTT, SIEMENS HEALTHINEERS, KONINKLIJKE PHILIPS N.V., STRYKER CORPORATION, AND OTHERS ARE EXPECTED TO GAIN MOMENTUM AND ACCELERATE MARKET CAGR OF 5.4% BETWEEN 2021-28.

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The Medical Technology Industry (MedTech) The medical technology industry (commonly referred to as medical devices) consists of articles, instruments, apparatuses, or machines that are used in the prevention, diagnosis or treatment of illness or disease, or for detecting, measuring, restoring, correcting, or modifying the structure or function of the body for some health purpose. Typically, the purpose of a medical device is not achieved by pharmacological, immunological, or metabolic means. https://www.selectusa.gov/medical-technology-industry-united-states

Medical technologies are with you all the time

"From pregnancy tests to ultrasound scans, medical technology is with you from before you are born. If you scratched your knee as a child, you wore a plaster; if your vision blurs, you got glasses.
When you are unwell, diagnostics and medical devices help healthcare professionals restore you to good health as quickly as possible.

Should you need surgery, medical technologies will ensure you get the care you need in a way that is safe and minimally invasive; if your blood vessels become blocked, stents can help clear the way; if you are seriously ill, an MRI scan can find the cause; if you require monitoring, digital health tools can check your health status and communicate vital data to health professionals." https://www.medtecheurope.org/about-the-industry/what-is-medical-technology/

MEDICAL TECHNOLOGIES - AT EVERY PHASE OF THE PATIENT PATHWAY

In its many forms, medical technology is beneficial to the health and quality of life. MedTech offers:

PREVENTION: ***Medical technology can support in preventing disease, injury or other conditions, for example through early detection tools.***
DIAGNOSIS: In vitro diagnostics test results help identify a specific condition, its development and treatment selection
MONITORING: Medical technology supports patients in checking the status of a disease or chronic condition.
TREATMENT: Medical technology help patients overcome injuries and diseases or treating chronic illnesses.
CARE: Medical technology is found across the whole care pathway; it accelerates recovery and keeps people healthy.

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THE COMPLETE BUNDLE: FOUNDATION – ELECTRONICS – INFORMATION TECHNOLOGY – MEDICAL TECHNOLOGY:

******The objective of the OEDP Healthcare Combo Program in Medical & Information Technology:*** (The Combo of medical and information technology) is to train the most advanced Biomedical service and imaging equipment service technicians across Africa and the world over, to maintain crucial medical technologies and information technologies that healthcare service providers depend on to provide thorough and utter healthcare; OEDP-Biomedical and Information Technology Program (OEDP-BMDIT) and Network accomplishes this as follows;

A CRITICAL CAREER SKILLS CERTIFICATION PROGRAM:

This includes critical fundamental certifications to navigate through the program and harness a globally recognized essential and professional best practice as follows:

- Entrepreneurship – Entrepreneurship and Small Business (ESB)
- Digital Literacy: Internet and Computing Core (IC3- GS6)
- Digital Security: Certified Secure Computer User (CSCU)
- Professional Communication under the Critical Career Skills (CCS) Program

A CERTIFIED ELECTRONICS TECHNICIAN PROGRAM

Electronics is the foundation of medical technology and information technology; the OEDP-BMD-IT program provides a certified *Associate Electronics Technician (CETa)* Certification (includes electronics exam modules from EM1-EM5) as the core prerequisite for advanced internationally licensed biomedical technologists, engineers or technicians:

Electronics Modules (EM1-5)

The EM program is based on ETA's Associate level certification (CETa). The CETa competencies have been divided into

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five sections called "modules." The purpose of this is to align with a growing portion of the electronics education industry that is charged with providing electronics training that does not include the total content of traditional Basic Electronics courses. In some instances, technical institutions are asked to provide training in only certain portions of electronics. This is so that companies that need only narrower skills and knowledge (than one expects of a complete CETa) can employ workers who have required knowledge and skills for only the technology and processes they currently use at that company. To provide a path for the technician leading to the CETa credential, the fi ve BASIC modules of the CETa can be acquired individually. Once a technician a ains all fi ve module certifi cations, ETA will issue an official CETa certification (all fi ve must be passed within a two-year period). Hands-on skills exam components are available. The technician may also choose to gain only those modules needed in order to be employable.

The five basic Electronics Modules are:

- Direct Current (DC)
- Alternating Current (AC)
- Analog
- Digital
- Comprehensive

A CERTIFIED INFORMATION TECHNOLOGY MAJOR:

CompTIA ITF+ provides an industry recognized foundation in IT for aspiring technicians as a globally accepted entry certification into the industry.

TWO DOD APPROVED ISO 17024 INTERNATIONAL CERTIFICATIONS IN IT FOR CORE HEALTHCARE IT (HCIT) JOBS

The Information Technology program via CompTIA provides three ISO 17024 ANSI, AND DOD Approved certifications as follows;

- CompTIA Tech+
- CompTIA A+
- CompTIA Network+,

- CompTIA Security+,
- CompTIA Project+

mapped to international job roles, as follows;

Seven CompTIA certifications have been approved for the U.S. Department of Defense Directive 8140/8570.01-M: CompTIA A+, CompTIA Network+, CompTIA Security+, CompTIA Cloud+, CompTIA Pentest+, CompTIA Cybersecurity Analyst (CySA+) and CompTIA Advanced Security Practitioner (CASP+). Covering 11 different 8140/8570 job roles, these certifications are vendor neutral, internationally recognized credentials and are accredited by ANSI to comply with the ISO 17024 standard.

Healthcare IT (HCIT) Job Roles

CompTIA A+ Job Roles: Service Desk Analyst, Technical Support Specialist, Field Service Technician, Associate Network Engineer, Data Support Technician, Desktop Support Administrator, End User Computing Technician, Help Desk Technician, System Support Specialist.

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CompTIA Network+ Job Roles: Junior Network Administrator, Computer Technician, Network Field Technician, Help Desk Technician, Junior Systems Engineer, Systems Engineer, IS Consultant, Network Support, Network Field Engineer • Network Analyst

CompTIA Security+ Job Roles: Top Security+ Job Roles • Systems Administrator

- Security Administrator
- Security Specialist
- Security Engineer
- Network Administrator
- Junior IT Auditor/Penetration Tester
- Security Consultant

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MAJOR CERTIFICATIONS IN MEDICAL TECHNOLOGIES:

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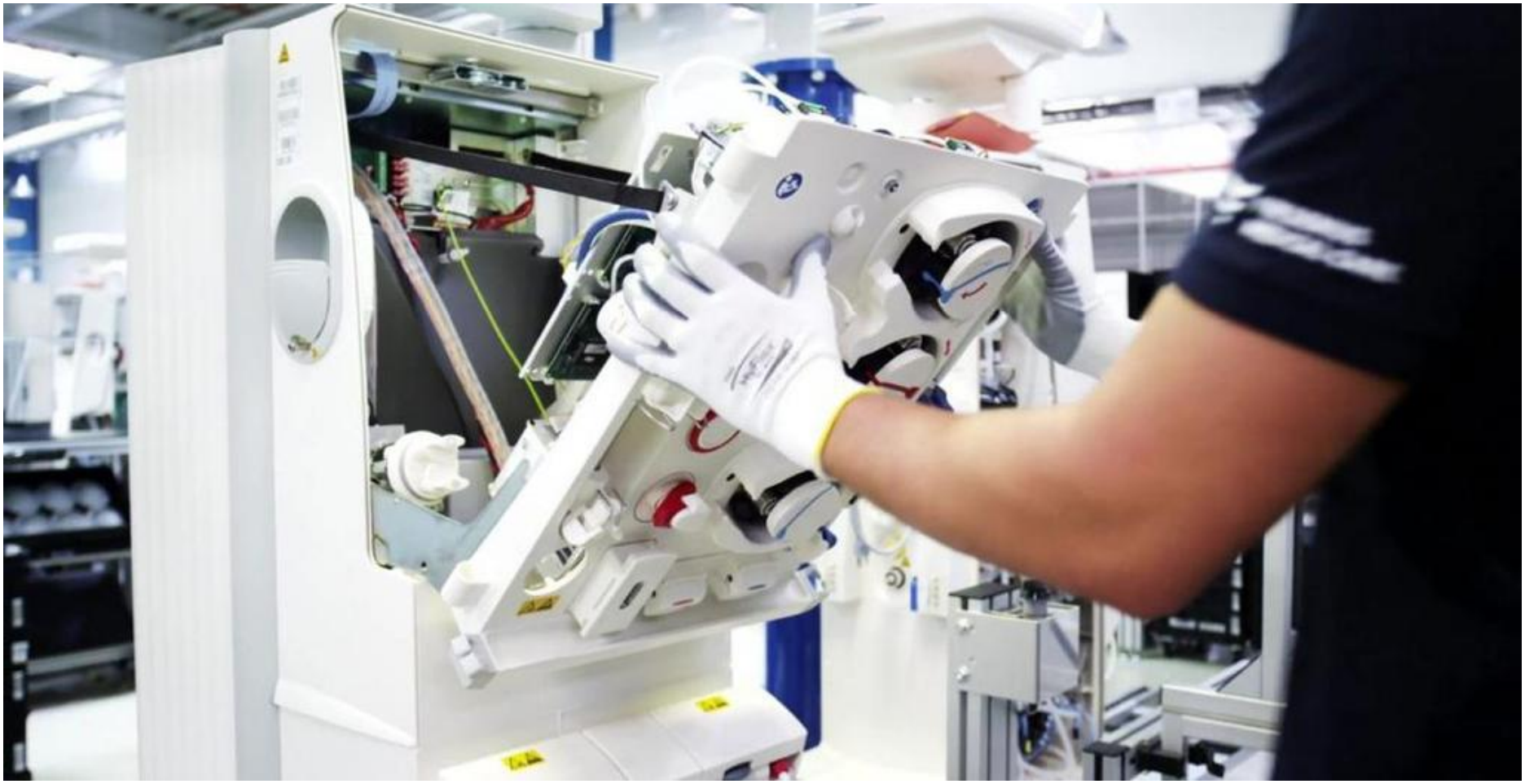

BIOMEDICAL ELECTRONICS TECHNICIAN (BMD)

Biomedical electronics technicians are expected to obtain knowledge of the principles of modern biomedical techniques, the proper procedure in the care, handling, and maintenance of biomedical equipment and to display an attitude/behavior expected of an electronics technician who works in a hospital or healthcare environment.

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Biomedical Electronics Technicians (BMD)

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The ETA Biomedical Electronics Technician (BMD) certification exam covers topics such as:

- The Human Nervous System
- Medical Electrodes
- Cables and Cabling
- Computer
- Transducers
- Medical Electronics Safety
- Hemodialysis Equipment
- Networking
- Medical Ultrasound Instruments
- Mathematics
- Building Wiring
- Optical Wiring
- Radiology
- Test Equipment and Tools
- Troubleshooting
- Operating Room Familiarization
- Instrumentation-Respiratory
- Instrumentation-The Medical Laboratory
- Electrosurgery Generators
- Intensive and Coronary Care Units
- Cardiac Support System
- Bioelectric Amplifiers

BIOMEDICAL IMAGING EQUIPMENT TECHNICIAN (BIET)

A BIET should be familiar with the following topics: Anatomy, Medical Terminology, Computer, Electro/ Mechanical Safety, Picture Archive Communication System, Diagnostic Ultrasound Equipment, Building Wiring, Basic Radiographic Equipment, Film Processing, Test Equipment, Magnetic Resonance Imaging, Computed Tomography, Nuclear Medicine, Codes and Regulations, Troubleshooting, Radiation Safety, Radiation Physics, and Linear Accelerators.

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Biomedical Imaging Equipment Technicians (BIET)

A Biomedical Imaging Equipment Technician should be familiar with the following topics: anatomy, medical terminology, computers, electro/mechanical safety, picture archive communication system, diagnostic ultrasound equipment, building wiring, basic radiographic equipment, film processing, test equipment, magnetic resonance imaging, computed tomography, nuclear medicine, online pharmacy,codes and regulations, troubleshooting, radiation safety, radiation physics, and linear accelerators. **$80**

The certified BIET must be knowledgeable and have abilities in the following technical and human relations areas:

- Anatomy
- Medical Terminology
- Computer
- Electro/Mechanical Safety
- Picture Archive Communication System
- Diagnostic Ultrasound Equipment
- Building Wiring
- Basic Radiograph Equipment
- Film Processing
- Test Equipment
- Magnetic Resonance Imaging
- Computed Tomography
- Nuclear Medicine
- Codes and Regulations
- Troubleshooting
- Radiation Safety
- Radiation Physics
- Linear Accelerators

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OPTIONS AND PRICING

OPTIONS	Number of Certifications	Certifications	Total Cost (FCFA)	Yearly Payment Structure	Training Duration	Average Wage per Year in $	Average Wage per Month in FCFA
LEVEL 1	3 - Certified Biomedical Professional	IC3-GS6 CETA (EM 1—EM5) BMD	6,000,000	2,000,000	3 Years	$73,748	3,400,000 - 4,000,000 FCFA
LEVEL 2	7 - Certified Professional: Medical & Information Technology	IC3-GS6, ESB CETA (EM 1—EM5) Tech+, A+, Network+ BMD	8,500,000	2,125,000	4 Years	$173748	8,244,069.32 FCFA
LEVEL 3	8 - Level 2 + Project Leader	IC3-GS6, ESB CETA (EM 1—EM5) Tech+, A+, Network+, Project+ BMD	10,000,000	2,500,000	4 Years	$240,748	11,761,013.51 FCFA
LEVEL 4	10 - Level 3 + Healthcare IT Manager, Cybersecurity Security Consultant, Specialist, Administrator or Engineer	IC3-GS6, ESB, CSS CETA (EM 1—EM5) Tech+, A+, Network+, Security+, Project+, BMD	12,500,000	2,500,000	5 Years	$378748	17,967,770.87 FCFA
SPECIALIZATION IN IMAGING EQUIPMENTS							
LEVEL 5	12 - Level 4 + Imaging Specialization (Investor Education Program)	IC3-GS6, CSCU, ESB, CCS CETA (EM 1—EM5) Tech+, A+, Network+, Security+, Project+ BMD, BIET	15,000,000 (On Rebate)	3,000,000	5 Years	$536,659	25,474,682.24 FCFA

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We're the international exam center (Certification Administrator) for the following ETA International Certification exams that align with the ISO 17024 standard:

ELECTRONICS

Associate Certified Electronics Technician (CETa)
Basic Systems Technician (BST)
Electronics Modules (EM1-5)
Student Electronics Technician (SET)

BIOMEDICAL

Biomedical Electronics Technician (BMD)
Biomedical Imaging Equipment Technician (BIET)

COMMUNICATION

5G Technician (5GT)
Certified Satellite Installer (CSI)
Distributed Antenna Systems (DAS)
General Communications Technician — Level 1 (GCT1)
General Communications Technician — Level 2 (GCT2)
Line & Antenna Sweep (LAS)
Microwave Radio Technician (MRT)
Mobile Communications and Electronics Installer (MCEI)
Practical Antenna Basics (PAB)
RF Interference Mitigation (RFIM)
Advanced Interference Mitigation (AIM)
Radar (RAD)
Telecommunications (TCM)
Wireless Communications (WCM)

INFORMATION TECHNOLOGY

Computer Service Technician (CST)
Information Technology Security (ITS)
Network Computer Technician (NCT)
Network Systems Technician (NST)
Wireless Network Technician (WNT)

RENEWABLE ENERGY

Photovoltaic Installer — Level 1 (PVI1)
Photovoltaic Installer/Designer — Level 2 (PV2)
Small Wind Installer (SWI)

SMART HOME

Certified Alarm Security Technician (CAST)

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Electronic Security Networking Technician (ESNT)
Smart Technology Systems (STS)
Smart Technology Systems Master Integrator (STSmi)

WORKFORCE READINESS

Certified Service Manager (CSM)
Customer Service Specialist (CSS)

In addition, the U.S. military, through their individual education offices, works with ETA for both ETA and FCC Com- mercial License testing at all U.S. military facilities worldwide.

Our goal isn't just to enable access to the most vendor-neutral training & exams, but to build a network of Electronic, IT, Communications, Biomedical Technicians et al, across Africa and the world over - Join us Today!!!

Contact: Call/WhatsApp: +237 6 80 28 99 56

Visit Africa, then Cameroon, to verify our International Certification Administration status via the following link: https://www.google.com/maps/d/viewer?mid=1-C4z0jUTe_uZwK4cXinJNA3HS-0V0Cg&femb=1&ll=-3.81666561775622e-14%2C0.09384409999995569&z=1

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