

COMPETENCY TRAINING FOR BIOMEDICAL TECHNICAL PERSONNEL (BTP) CCM 2: MODULE 3

Cardiovascular System & Renal System

19 & 20 June 2024



Wednesday & Thursday



Seminar Room 1, Medical Device Authority,
Level G, Prima 9, Prima Avenue II, Block
3547, Persiaran APEC, 63000, Cyberjaya



Online Examination - 21 June 2024
(Friday)

OVERVIEW OF THE TRAINING

This module is designed in line with Section 43 of the Medical Device Act 737 for participants who are responsible for the maintenance, testing & commissioning, and disposal of a medical device in healthcare institutions and related facilities.

This training helps the participants to understand the anatomy and physiology of the Cardiovascular System & Renal System of the human body associated with relevant biomedical engineering applications. The acquired knowledge will be useful for the application and maintenance in relation to medical devices that they will encounter in the field.

TARGET AUDIENCE

- Biomedical Technical Personnel
- Biomedical Service Provider
- Biomedical Engineering Trainers
- Biomedical, Mechanical, Mechatronics, Electrical, and Electronics Engineering graduates
- Technical and Vocational Education and Training (TVET)
- BEM and FEM Managers
- Interested Individuals

Training Fee

RM 850

PER PAX

REGISTER NOW



CLOSING DATE: 12 JUNE 2024

Upon acceptance for the registration, an invoice (for payment purpose) together with details of the payment methods will be issued accordingly

CONTACT US:

trainingpackage@mda.gov.my

PROGRAM OUTLINE

DAY-1 : 19 JUNE 2024 (WEDNESDAY)

08:30 AM – 09:10 AM

Registration & Briefing

09:10 AM – 10:40 AM

Cardiovascular System

- Anatomy & function of the heart
 - Heart physiology – electrical & mechanical events, cardiac cycle, cardiac output and heart sounds
-

10:40 AM – 11:00 AM

Short Break

11:00 AM – 12:30 PM

Cardiovascular System (Cont.)

- Circulation of blood – systemic & pulmonary circulation
 - Structure & function of blood vessels
-

12:30 PM – 14:00 PM

Lunch Break

14:00 PM – 15:10 PM

Cardiovascular System (Cont.)

- Physiology of circulation – blood flow, pressure, and resistance
 - Control of blood pressure & blood flow
-

15:10 PM – 15:30 PM

Tea Break

15:30 PM – 17:00 PM

Cardiovascular System (Cont.)

- Diseases of the cardiovascular system
- Instrumentation and measurement devices for cardiovascular system – ECG, defibrillator, blood pressure monitor

PROGRAM OUTLINE

DAY-2 : 20 JUNE 2024 (THURSDAY)

08:30 AM – 09:10 AM

Registration & Briefing

09:10 AM – 10:40 AM

Renal System

Anatomy and physiology of the renal system

- Structure of kidney
 - Structure of nephron
-

10:40 AM – 11:00 AM

Short Break

11:00 AM – 12:30 PM

Renal System (Cont.)

- Functions of the renal system
 - Regulating mechanisms of fluid, electrolyte, and acid-base balance
-

12:30 PM – 14:00 PM

Lunch Break

14:00 PM – 15:10 PM

Renal System (Cont.)

Renal instrumentation (Haemodialysis system)

- Function
-

15:10 PM – 15:30 PM

Tea Break

15:30 PM – 17:00 PM

Renal System (Cont.)

Renal instrumentation

- Adverse effects
- Hemodialysis processes
- Types

DAY-3 : 21 JUNE 2024 (FRIDAY)

10:00 AM – 11:00 AM

Online Examination (MDA Training Portal & Google Meet)