# Guidelines for Credentialing of Cardiovascular Technologist

**Notice:**



Malaysian Society of Cardiovascular Technologist (MSCVT)
Heart House,
C/O National Heart Association of Malaysia (NHAM)
Heart House, D-13A-06, Menara SUEZCAP 1, KL Gateway,
No 2 Jalan Kerinchi, Gerbang Kerinchi Lestari, 59200 Kuala Lumpur,
MALAYSIA.

This guideline also can be reviewed through our website http://www.mscvt.my

# MALAYSIAN SOCIETY OF CARDIOVASCULAR TECHNOLOGIST

## Table of Contents

# 1 INTRODUCTION

The Malaysian Society of Cardiovascular Technologist (MSCVT) is a non-profit organization, founded in year of 2009. MSCVT has been under the auspices of National Heart Association of Malaysia (NHAM) and being the only leading association representing cardiovascular technologist (CVT) in Malaysia. The mission of MSCVT is to establish CVT profession, promotes higher standard of service quality, excellent structured CVT training program and continuous education for CVT thus producing a very dynamic CVT in the future.

In view of the profession of Cardiovascular Technology in Malaysia has yet to have its own governing body to oversight and regulate the profession, the Malaysian Society of Cardiovascular Technologist (MSCVT) is entrusted to take the lead role in establishing standard that outlined the scope of practice, educational pre-requisites, training requirements and the clinical experiences before a person will be recognised as a Cardiovascular Technologist (CVT).

Since 2013 MSCVT has worked with several parties including its fraternity, the National Heart Association of Malaysia (NHAM) and several members of cardiovascular technology profession from various geographic locations to come out with these credentialing guidelines.

The purpose of these guidelines is to ensure the personnel who carrying out the CVT duties are to meet or exceed the minimum educational standard outlined in this guideline. This in the end will be translated into the quality of services delivered to the service users are assured and will ultimately safeguard the public interest as well as the members of the profession.

These guidelines are under the purview of the MSCVT with the guidance from the NHAM, where periodical revision and amendment may take place to meet the need

of the dynamic environment. These guidelines have also outlined a working group called MSCVT Credentialing Council that entrusted to take responsibility to review and scrutiny all credentialing applications and other related documents before the credential is awarded to the successful applicants. The appointment and tenure of the members of this council areas per outlined in the Term of Reference (TOR) of this council and it is bound to the approval by the MSCVT Committee.

The members of Cardiovascular Technology profession are advised to take this opportunity to forward their application together with all the required documents as outlined in these guidelines in order to obtain the credential.

* *This CVT credentialing is a dynamic document; it will be updated as needed to incorporate new profession changes or to revise the qualification standards. MSCVT should ensure that they are using the most recent version of this guide. Contact MSCVT directly or log in to the website to obtain the most recent version of these guidelines.*

# 2 PROFESSIONAL STATEMENT

Cardiovascular Technology Profession Statement

Published by

The Malaysian Society of Cardiovascular Technologist (MSCVT)

## 2.1 Description of Profession

The profession of a Cardiovascular Technologist (CVT) is a vital and specialized field within the realm of healthcare. These highly skilled professionals play a crucial role in the diagnosis, treatment, and management of cardiovascular diseases. As experts in cardiac imaging and diagnostic procedures, CVTs work alongside physicians, cardiologists, and other healthcare professionals to provide comprehensive care to patients.

The primary focus of a CVT is to perform and assist in various cardiovascular diagnostic tests and procedures. This includes conducting echocardiograms, stress tests, electrocardiograms (ECGs), Holter monitoring, and vascular testing, among others. With their specialised knowledge and training, CVTs are responsible for acquiring accurate and high-quality diagnostic images and recordings that aid in the identification and assessment of cardiovascular conditions.

One of the key aspects of a CVT's profession is proficiency in the operation and maintenance of sophisticated invasive and non-invasive cardiovascular equipment. CVTs are skilled in utilising ultrasound machines, stress testing equipment, and electrocardiography devices, hemodynamic monitoring system,

adjunct intravascular imaging technologies, ensuring optimal functioning and precise results.

In addition to their technical skills, CVTs possess a strong understanding of cardiovascular anatomy, physiology, and pathophysiology, enabling them to recognize abnormal findings, interpret diagnostic results, and collaborate with healthcare teams to formulate accurate diagnoses and effective treatment plans. CVTs are proficient in analysing and measuring cardiac structures and functions, including assessing heart chambers, valvular abnormalities, blood flow patterns, and cardiac performance.

The profession of a CVT requires exceptional attention to detail, as well as the ability to work under pressure in fast-paced environments. CVTs must demonstrate excellent communication skills, as they often interact with patients, their families, and healthcare professionals to provide explanations, alleviate concerns, and ensure a comfortable experience throughout the diagnostic process.

Continuing education and professional development are integral to the CVT profession. As technology advances and new techniques emerge, CVTs stay updated with the latest advancements and research in the field. They actively participate in workshops, conferences, and training programs to enhance their skills, expand their knowledge base, and remain at the forefront of cardiovascular healthcare.

In summary, the profession of a Cardiovascular Technologist is a dynamic and essential component of cardiovascular care. CVTs contribute significantly to the accurate diagnosis and treatment of cardiovascular diseases, playing a pivotal role in improving patient outcomes and overall cardiovascular health. Through their technical proficiency, knowledge, and dedication, CVTs make a positive impact on the lives of countless individuals and contribute to the advancement of cardiovascular medicine.

The profession of cardiovascular technology encompasses four subspecialty areas which include: -

- Non-Invasive cardiovascular
- Invasive cardiovascular
- Non-invasive vascular
- Cardiac pacing and electrophysiology
- Transesophageal echocardiography

## 2.2 Scope of Duty

Cardiovascular technologists (CVTs) frequently care for patients with heart conditions, who are at an elevated risk of experiencing cardiopulmonary emergencies. Consequently, it is imperative that all CVTs possess the necessary competence to execute emergency resuscitation procedures effectively. Additionally, CVTs are expected to proficiently establish intravenous access and administer medications in accordance with clinician instructions during procedures.



The scope of duty of CVTs should include, but are not limited to, these subspecialty areas:

1. Noninvasive cardiovascular
2. Invasive cardiovascular
3. Noninvasive Peripheral Cardiovascular
4. Cardiac Pacing & Electrophysiology
5. Transesophageal echocardiography

## 1. Noninvasive Cardiovascular

The CVT independently performs the following noninvasive cardiovascular investigation procedures and analyzes the data in order to create easily definable information which can be used by the clinicians for the patients' management. The procedures include, but are not limited to: -

1.1 Electrocardiography (ECG)

1.2 Stress Testing

1.3 Ambulatory ECG monitoring & recording

- 1.3.1 Holter
- 1.3.2 Event recorder

1.4 Ambulatory Blood Pressure monitoring

1.5 Cardiopulmonary Exercise Testing (VO2 Max)

1.6 Nuclear Medicine Cardiac Stress

1.7 Echocardiogram

1.8 Exercise Stress Echocardiogram

1.9 Pharmacological Stress Echocardiogram

1.10 Transesophageal Echocardiogram (TEE) - assisting physician or performing the procedure under supervision of physician.

1.11 Venipuncture and intravenous drug administration

1.12 Emergency resuscitation procedure whenever required.

1.13 Data analysis and research

## 2. Invasive Cardiovascular

Within an invasive cardiovascular laboratory, CVTs collaborate closely with allied professionals like Cardiac Angiographers and Catheterization Lab Nurses to assist Cardiologists in conducting diagnostic and interventional cardiac catheterization

procedures. The roles of CVTs in these invasive labs encompass a broad range of responsibilities, including but not limited to:

2.1 Monitoring of patient's hemodynamics and vital signs parameters

2.2 Analyzing the blood sample for the blood gas analysis (ABG) and oxygen saturation level for intracardiac shunt study

2.3 Performing Transesophageal echocardiogram (TEE) under supervision of cardiologists or/and anesthesiologist

2.4 Performing Transthoracic Echocardiogram

2.5 Preparing and assisting Intravascular Imaging procedure

2.6 Preparing and assisting Intra-Aortic Balloon Pump (IABP) insertion or extra corporeal membrane pump

2.7 Preparing and assisting the Intravascular Atherectomy procedure

2.8 Groin management.

2.9 Assisting diagnostic Cardiac Catheterization Procedures

2.10 Assisting various Transcatheter Cardiovascular Interventions such as (but not limited to): -

2.10.1 Coronary Angioplasty

2.10.2 Occluder devices implantation

2.10.3 Valvuloplasty of heart valves

2.10.4 Prosthetic valve implantation (TAVI)

2.10.5 Valve edge-to-edge repair

2.10.6 Vascular angioplasty

2.10.7 Removal of foreign materials

2.11 Venipuncture and intravenous drug administration.

2.12 Performing Tilt Table Test

2.13 Emergency resuscitation procedure when necessary

## 3. Noninvasive Peripheral Vascular

CVTs specialized in this area are capable of independently performing various vascular procedures, which include, but are not limited to:-

3.1 Ankle- Brachial Index (ABI) study

3.2 Carotid Ultrasound Duplex study

3.3 Peripheral Artery Ultrasound Duplex study

3.4 Peripheral Vein Ultrasound Duplex study

3.5 Thermography and Plethysmography Procedures

3.6 Compression procedure of peripheral vascular access pseudo aneurysm and hematoma

3.7 Emergency resuscitation procedure when necessary

## 4. Cardiac Pacing & Electrophysiology

The duties of the CVTs in this subspecialty area are divided into invasive electrophysiology laboratory and non-invasive electrophysiology lab.

In invasive electrophysiology laboratory, CVTs collaborate with other allied professionals such as Cardiac Angiographers and Cardiac Catheterization Lab Nurse in supporting electrophysiologists to perform various invasive electrophysiological diagnostic and therapeutic procedures, and implantation of rhythm management devices. The roles of CVTs in invasive electrophysiology laboratory include, but not limited to: -

4.1 Cardiac Pacing

4.1.1 Support Permanent Pacemaker Implantation

4.1.2 Support Implantable Cardiac Defibrillator (ICD) Implantation

4.1.3 Support Biventricular Pacemaker Implantation

4.1.4 Support Temporary Pacemaker Implantation and programming

4.2 Electrophysiology

4.2.1 Support Invasive Electrophysiology Study

4.2.2 Support Radiofrequency Ablation Support

4.3 Emergency resuscitation procedure when required.

In the non-invasive electrophysiology laboratory, CVTs who are specialized in this area are capable of independently performing various procedures that include, but are not limited to: -

4.4 Conducting the follow-up clinic for interrogation, programming and reprogramming of the cardiac implantable electronic devices such as: -

4.4.1 Pacemaker

4.4.2 Implantable defibrillator

4.4.3 Biventricular pacemaker

4.4.4 Implantable loop recorder

4.5 Emergency resuscitation procedure when necessary



## 5. Transesophageal Echocardiography

The Transesophageal Echocardiography (TEE) subspecialty for Cardiovascular Technologists (CVT) was officially introduced in 2010. CVTs are involved in performing TEE in the operating theatre (OT), as cardiac anesthesiologists can only focus on either administering anesthesia or performing TEE at a time. While the anesthesiologist remains responsible for the patient, CVTs are tasked with manipulating the TEE probe to obtain images and conducting TEE evaluations before and after surgery.

Effective communication with the cardiac surgery team, especially the cardiothoracic surgeon and anesthesiologist, is crucial. CVTs in this subspecialty also support interventional TEE procedures in the catheterization lab and hybrid OT, where clear communication with the cardiologist is essential for patient safety

The duties of the CVTs in this subspecialty area are divided into peri-operative and transcatheter interventional procedures.

Perform transesophageal echocardiography on surgical patients before, during, or immediately after surgery, or, including the critical care setting.

5.1.1 Adult transesophageal echocardiography

5.1.2 Adult

5.1.3 Paediatric

5.1.4 Performing TEE during transcatheter interventional procedures

5.1.5 MitraClip

5.1.6 TriClip

5.1.7 PTMC

5.1.8 Watchman

5.1.9 TAVI

5.1.10 Watchman

5.1.11 Transeptal puncture

5.1.12 Occluder device

# 3 CREDENTIALING GUIDELINES

Guidelines for Credentialing of Cardiovascular Technologist
Approved by
Malaysian Society of Cardiovascular Technologist
&
National Heart Association of Malaysia

## 3.1 Background

The role of the cardiovascular technologist (CVT) is increasingly complex and demanding. Not only must the CVT be familiar with approved clinical protocols for each type of cardiovascular examination candidate performs, the CVT also must be able to analyze the patient's clinical history fully, in order to identify the purpose of the examination, frame the clinical question(s) that the examination is intended to answer, and expand the examination as necessary to answer the clinical question(s).

Furthermore, the CVT is a crucial component of the treatment process, applying independent judgement, problem-solving skills, analytical thinking, and the ability to acquire and integrate accurate diagnostic information, while actively supporting clinicians in the delivery of treatment. Hence, credentialing for practicing CVTs is imperative to maintain the highest standards of patient safety and care.

To ensure that appropriate standards of service quality are maintained, the Malaysian Society of Cardiovascular Technologist (MSCVT) and the National Heart Association of Malaysia (NHAM) have collaborated to establish, uphold, and promote these guidelines in Malaysia. The purpose of these guidelines is to ensure that all practicing CVTs meet the minimum standard of academic qualification and

fulfill the required training or work experience in this field. These guidelines also ensure that the job scope of CVTs is only carried out by qualified and suitable personnel.

### 3.2 Credentialing Qualification Prerequisites

The current cardiovascular technology field recognises a diverse range of educational paths that lead to competent CVTs. Within the cardiovascular technology community and its related parental professions, there is a collective agreement that cardiovascular technology constitutes a highly specialized and advanced vocation. Hence, the credentialing committee recognizes only the following prerequisite pathways are legitimate to be granted credential:

1. **Bachelor degree of local institutions recognised by the Malaysian Society of Cardiovascular Technologist (MSCVT), that contains cardiovascular technology curriculum such as following: -**
    a) Bachelor Degree in Cardiovascular Technology

2. **Earned a post graduate certificate in Cardiovascular and Thoracic Sciences majoring in Cardiovascular Technology from IJN College**
    a) Candidate must hold a recognized certification in one of the following: -
        1. Diploma of Medical Assistant or equivalent
        2. Diploma or Bachelor Degree in Nursing
        3. Bachelor Degree in Biomedical Science
    b) Passed the Post Graduate Certificate In Cardiovascular And Thoracic Sciences (GCCVTS) majoring in cardiovascular technology

3. **Malaysian citizen who obtained international Bachelor Degree in Cardiovascular Technology field**

Candidate shall provide: -

a) Bachelor Degree's transcript, study letter of completion.
b) Letter of recommendation from current employer (optional)

4. **Other cardiac related qualifications not listed in previous categories may be evaluated by Credentialing Council based on case-by-case basis (Appendix 4)**

### 3.3 The Credentialing Field / Subspecialty

The MSCVT acknowledges that the practice fields of CVT may vary according to the institution that he/she practices. Not all hospitals or institutions are offering both Non-Invasive Cardiovascular and Invasive Cardiovascular services, with some institutions only providing Non-Invasive Cardiovascular services.

A credential will be granted to a candidate according to the candidate's field of practice. The field of practices that are currently recognized by these credentialing guidelines are: -

1. Non-Invasive Cardiovascular Echocardiography
2. Stress physiology & Ambulatory Monitoring
3. Invasive Cardiovascular
4. Cardiac Pacing & Electrophysiology
5. Transesophageal Echocardiogram



### 3.4 Processing Fee

The process of verifying qualifications requires payment of an application fee of RM 300 for first time application and RM 200 for renewal fees (tri-annual), inclusive of a non-refundable processing fee of RM 100, which is intended to aid in the assessment and management of the applications by staff resources.

### 3.5 Credentialing Application Processes

a) New application

In order for a candidate to be awarded a credential, candidates shall submit a completed application form together with all required documents and the processing fee to the Secretariat of the *Cardiovascular Technologist Credentialing*

*Council*. Candidate must be practicing in the cardiovascular technology field at the time of application.

For candidates who fulfill prerequisite **No. 1,** application can be submitted immediately after graduation.

The credentialing process will take 4 months from date the application is received, subject to the completeness of the submitted required documents.

Complete applications must be submitted at least two weeks before the upcoming credentialing council meeting, which will be held to review applications at the end of January, May, September. Incomplete applications shall be brought forward to the next credentialing committee meeting.

All documents should be uploaded to 'Document Upload' section in the online application form https://form.jotform.me/92334961260456.

b) Renewal application

Applicant shall submit renewal application form here with 40 CPD record.

Renewal Documentation required

1- Renewal Application Form
2- Fee RM 300 (3 years)
3- Verification Letter for additional subspecialty
4- Code of Ethic (attach together with Renewal Registration Form)
5- CPD Point - Local and International Conference, Workshop, Symposium, Training and CME. Credentials are required to earn 40s, 30s of which must be cardiovascular-related and 10s for any medical related to complete the renewal process (Appendix 3)

Any inquiry shall be directed to mscvt.credentialing@gmail.com

## 3.6 Cardiovascular Technology Credentialing Council

1. **Cardiovascular Technology Credentialing Council Members includes: -**

    a) NHAM President
    b) Chairman MSCVT (Secretary)
    c) MSCVT committee (Credentialing Portfolio)
    d) 2 credentialed CVT representative from IJN
    e) 3 credentialed CVT representative from private sector
    f) 1 credentialed CVT representative from CVT education provider

2. **The role of the Credentialing Council**

    a) To review the credentialing qualification prerequisites from time to time, when
    b) necessary.
    c) To review and approve the credentialing application.
    d) To remove the credential awarded to CVTs found to have submitted falsified documents.

REFERENCES :

1) Wikipedia, the free encyclopedia (2011) *"Cardiovascular Technologist" http://en.wikipedia.org/wiki/Cardiovascular_technologist*

2) Commission on Accreditation of Allied Health Education (2016) *Standards and Guidelines for the Accreditation of Educational Programs in Cardiovascular Technology, https://assets.website-files.com/5f466098572bfe97f28d59df/5f8f363f7e41b1d745829c08_Standards-CVT.pdf*

3) Canadian Society of Cardiology Technologists (2011) "National Occupational Competency Profile", *http://www.csct.ca/CSCTFramesetMembers.htm.*

4) Society for Cardiological Science and Technology (2011) "Cardiac Clinical Physiologist" *http://www.scst.org.uk/pages/page_box_contents.asp?pageid=747&navcatid=136* United States Department of Labor "Cardiovascular Technologist and Technician" *http://www.bls.gov/oco/ocos100.htm*

5) *Credentialing & Privileging Guidelines for Nurses, Assistant Medical Officers & Allied Health Professionals, Ministry of Health, Malaysia*

# 4

# APPENDICES

**LIST OF APPENDICES**

## Appendix 1: Code of Ethic of Cardiovascular Technologist

Code of Ethics for Cardiovascular Technologists

The purpose of this Code of Ethics is to acknowledge the cardiovascular technologist of his/her acceptance of the responsibility and trust deliberated upon it by the Malaysian Society of Cardiovascular Technologists (MSCVT) and to recognise that earning the credential is a privilege that must be earned and maintained. The delivery of safe, competent, and ethical patient care is a responsibility of the highest order.

All credentialed cardiovascular technologists shall, in their professional activities, sustain and advance the integrity and honour of the profession by adhering to this Code of Ethics. Cardiovascular technologists who intentionally or knowingly violate any provision of the Code of Ethics will be subject to action by which may result in the revocation of the credential.

1) As a credentialed cardiovascular technologist, I shall place the safety, health, and protection of the patient above all other interests.
2) As a credentialed cardiovascular technologist, I shall demonstrate and maintain professional competence in all aspects of patient care and within the scope of practice as defined by my employer.
3) As a credentialed cardiovascular technologist, I shall uphold professional standards by adhering to defined technical protocols and diagnostic criteria established by peer review.
4) As a credentialed cardiovascular technologist, I shall represent my qualifications honestly and provide only those services for which I am qualified to perform.
5) As a credentialed cardiovascular technologist, I shall defend and protect the patient's right to privacy and confidentiality unless required to disclose such information by law.
6) As a credentialed cardiovascular technologist, I shall consistently maintain and improve professional competence through regular assessment of skills, continuing education, experience, and professional training.

7) As a credentialed cardiovascular technologist, I shall voluntarily report any criminal behaviour resulting in a conviction of a criminal violation.
8) As a credentialed cardiovascular technologist, I shall avoid deceptive acts that misrepresent my academic or professional qualifications.
9) As a credentialed cardiovascular technologist, I shall avoid compromise of professional judgement by conflicts of interest.
10) As a credentialed cardiovascular technologist, I shall will engage only in legal arrangements and practices in the healthcare field.
11) As a credentialed cardiovascular technologist, I shall act in a manner free of bias with regard to religion, ethnicity, gender, age, nationality, disability, and socioeconomic status.
12) As a credentialed cardiovascular technologist, I shall uphold and follow all policies and procedures required by my organisation that I employed and also by the relevant authorities to remain in good standing, and I shall abide by the Cardiovascular Technologist Code of Ethics.

| | |
|---|---|
| Registrant Name | |
| Registrant Signature | |
| Date: | |

## Appendix 2: Endorsement Letter from NHAM

The copy of the Letter of Endorsement by the President of NHAM

# NATIONAL HEART ASSOCIATION OF MALAYSIA

Heart House, First Floor, Medical Academies of Malaysia, 210 Jalan Tun Razak, 50400 Kuala Lumpur, MALAYSIA.
Tel: (603)-4023 1500 Fax: (603)-4023 9400 Email:secretariat@malaysianheart.org www.malaysianheart.org

3 January 2013

Affiliated National Society of

EUROPEAN SOCIETY OF CARDIOLOGY

16th Council 2012-2014

PRESIDENT
Dr. Azhari ROSMAN

VICE-PRESIDENT
Dr. Rosli MOHD ALI

SECRETARY
Dr. NG Wai Kiat

TREASURER
Dr. LAM Kai Huat

IMMEDIATE PAST PRESIDENT
Dr. SIM Kui Hian

COUNCIL MEMBERS
Dr. CHOO Gim Hooi
Dr. KHOO Kah Lin
Dr. LIEW Houng Bang
Dr. David K. L. QUEK
Dr. Annuar RAPAEE
Dr. TIANG Soon Wee
Dr. Wan Azman WAN AHMAD
Dr. Robaayah ZAMBAHARI

CHAIRPERSON of ICSM
Dr. Rosli MOHD ALI

CHAIRPERSON of SOPACE
Dr. Imran ZAINAL ABIDIN

CHAIRPERSON of SCIM
Dr. Annuar RAPAEE

CHAIRPERSON of MPCS
Dr. Hasri SAMION

CHAIRPERSON of WH2O
Dr. Robaayah ZAMBAHARI

To Whom It May Concern:

The National Heart Association of Malaysia (NHAM) wishes to endorse the initiative of the Malaysian Society of Cardiovascular Technologist (MSCVT) to have persons performing job functions as Cardiovascular Technologists (CVTs) in Malaysia to be credentialed.

The objective of such a credentialing exercise is to ensure that persons who are CVTs are suitably qualified and have the required work experience and necessary training to discharge their duties as cardiovascular technology professionals. By doing so, standards of quality and service can be established in Malaysia, as provided by the Guidelines document attached.

The Guidelines for Credentialing of CVTs outlines the pre-requisite qualification, training and work experience expected of a CVT working in a healthcare facility in Malaysia, regardless whether in the private or public sector setting. This will ultimately ensure that the welfare of patients and members of the public will safeguarded and they only receive quality service from CVTs.

The Professional Statement document also describes in detail the scope of work that is expected of CVTs who have been credentialed.

Although at present, getting credentialed by MSCVT Credentialing Committee remains non-compulsory, we highly recommend that all CVTs work towards it to further improve and ensure that the standards and professionalism are adhered to for this vital member of the multidisciplinary team of healthcare professionals responsible for the heart care of patients.

Warmest regards always,

Prof. Datuk Dr. Azhari Rosman
*MD, MRCP (UK), FNHAM, FAPSIC, FAsCC, FESC, FACC*
**President**
**National Heart Association of Malaysia**

SOPACE
ICSM Interventional Cardiovascular Society of Malaysia
SCIM
Malaysian Paediatric Cardiac Society
WH2O

# NATIONAL HEART ASSOCIATION OF MALAYSIA

D-13A-05, Menara SUEZCAP 1, KL Gateway, No.2 Jalan Kerinchi, Gerbang Kerinchi Lestari, 59200 Kuala Lumpur, MALAYSIA.
Tel: (603)-7931 7900 Fax: (603)-7932 1400 Email:secretariat@malaysianheart.org www.malaysianheart.org

3rd August 2021

**To Whom It May Concern:**

The National Heart Association of Malaysia (NHAM) wishes to endorse the initiative of the Malaysian Society of Cardiovascular Technologist (MSCVT) to have persons performing job functions as Cardiovascular Technologists (CVTs) in Malaysia to be credentialed.

The objective of such a credentialing exercise is to ensure that persons who are CVTs are suitably qualified and have the required work experience and necessary training to discharge their duties as cardiovascular technology professionals. By doing so, standards of quality and service can be established in Malaysia, as provided by the Guidelines document attached.

The Guidelines for Credentialing of CVTs outlines the pre-requisite qualification, training and work experience expected of a CVT working in a healthcare facility in Malaysia, regardless whether in the private or public sector setting. This will ultimately ensure that the welfare of patients and members of the public will be safeguarded and they only receive quality service from CVTs.

The Professional Statement document also describes in detail the scope of work that is expected of CVTs who have been credentialed.

Although at present, getting credentialed by MSCVT Credentialing Committee remains non-compulsory, we highly recommend that all CVTs work towards it to further improve and ensure that the standards and professionalism are adhered to for this vital member of the multidisciplinary team of healthcare professionals responsible for the heart care of patients.

Yours sincerely,

**Prof. Dato' Dr. Wan Azman Wan Ahmad**
**President**
**National Heart Association of Malaysia (2018-2021)**

Affiliated National Society of

# NATIONAL HEART ASSOCIATION OF MALAYSIA

D-13A-06, Menara SUEZCAP 1, KL Gateway, No.2 Jalan Kerinchi, Gerbang Kerinchi Lestari, 59200 Kuala Lumpur, MALAYSIA.
Tel: (603)-7931 7900 Fax: (603)-7932 1400 Email: secretariat@malaysianheart.org www.malaysianheart.org

10 December 2024

**Mr Mohd Shafullah Mohamad Serdari**
**Chairperson**
**Malaysian Society of Cardiovascular Technologist (MSCVT)**

Dear Mr Mohd Shafullah,

**ENDORSEMENT OF THE UPDATED GUIDELINES FOR CREDENTIALING OF CARDIOVASCULAR TECHNOLOGIST**

On behalf of the National Heart Association of Malaysia (NHAM) Council, I am happy to endorse the updated guidelines for Credentialing of Cardiovascular Technologist that will take effect in 2026.

Congratulations on producing such a comprehensive document!

Thank you.

Yours sincerely,

**Dr. Alan Fong**
**President,**
**National Heart Association of Malaysia (2024-2026)**
**Chairperson,**
**MSCVT Credentialing Council**

## Appendix 3: Category of CPD Credit Points

| Category | CPD Activity Description | Credit Points Attainable | AdditionalCriteria Required | Maximum Points |
|---|---|---|---|---|
| | CORE BUSINESS (CATEGORY A) | | | |
| A1 | Health Congress / Conference ( Local / International ) Organised by :<br><br>3 Full Days (5-8 hrs / day).<br>2 Full Days.<br>1 Full day. | <br><br>20 points<br>15 points<br>10 points | A Conference should:<br>Involve speakers of local / international standing.<br>Contain plenary lectures / syamposia.<br>Allow presentation of free communication<br>/ poster, etc. | 20 Points |
| A2 | Scientific Meeting of Chapters of Academy / Universities/ Colleges / Associations / Institutions / Ministry Of Health & others<br><br>a) Less than 2 hours.<br>b) 2-4 hours (half day ).<br>c) 5-8 hours (full day ).<br>d) 2 full days.<br>e) 3 or more full days. | <br><br>1 point<br>2 points<br>3 points<br>6 points<br>10 points | Points awarded according to hours. | 20 Points |
| A3 | Workshop / Courses / Fellowships / Attachment etc (Include hands on and skill courses).<br>a) Half Day (2-4 hours).<br>b) Full Day (5-8 hours).<br>c) 2 Full days.<br>d) 3 or more full days.<br>e) Skill accredited structure courses by specific disciplines.<br>f) Study Tour approved byHead Of Department. | Points peractivity<br><br>4 points<br>6 points<br>10 points<br>15 points<br>20 points<br><br><br>5 points | For ward rounds creditpoints are awarded to participants from outside own hospital / establishment<br><br>e.g Private Practitioners verified by the CPD Chairman of that institution.<br><br><br>Proof of attendance. | |

| | | | | |
|---|---|---|---|---|
| A4 | CME sessions / other professional activites e.g Topic seminar, forum, lectures Journal club, Formal ward round, Clinic attendances, Hospital Clinical meeting Video Show, Video conferencing, reflectives Notes, Morbidity & Mortality reviews, Epidemiological reviews. | 1 point / hour | Certified attendance. | 20 Points |
| A5 | Presentation at accreditedmeeting Plenary lectures / long paper ( > 45 minutes ) / Free paper / Short paper.<br>Other lectures / talks e.g visiting lectures ( where one's is officially invited to give lecture at venue / funtion away from one's principal place of practice )hospital clinical meeting, CME sessions, public meeting, giving talks / public advice, lectures to NGO / radio or TV talk, technical briefing / update. | 10 points<br><br>5 points | These credit points are in addition to full delegates attendances at congresses scientific meeting or workshop.<br>Otherwise only credit point for presentation are attainable.<br>Visiting lectures - where one is officially invited to give a lecture at venue / function away from ones's principal place of practice.<br>Documented Proof of appreciation and participation. | 20 Points |
| A6 | Publication of original articles in journal / chapters in book / reports<br>Indexed / per reviewedjournal.<br>Non indexed journal(authors).<br>Chapter in book - eachchapter.<br>Reports e.g technical report, working papers.<br>f) Standard Operating Procedures / modules onstandard care plan / manuals. | 20 points<br>10 points<br>10 points<br>10 points<br>10 points | An Indexed journal is one which has international standing and is listed in the indexed medicus or similar indexing system. Maximum for writing chapters in a book is 20points.<br><br>Verified presentation or publication. | 30 Points |

| | | | | |
|---|---|---|---|---|
| A7 | Self-Study / Group Study / Distance Learning<br>a) Reading scientific papersfrom indexed journals<br>/ Audio Visual / Organized group discussion under accredited coordinator. | 1 Points /paper or session | Documented evidence (with verification) needs bbe produced e.g :<br>self-study<br>(self-administered MCQ).<br>Documented evidence in the form of synopsis / evidence table. | 10 Points |
| A8 | CME On line. | 1 Points /article or session | The CPD Board is ultimately responsible foraccreditation of providers. | 20 Points |
| A9 | Post Basic Courses<br>> 1-3 months.<br>> 3-6 months.<br>> 6 month - 1 year. | 15 Points<br>20 points<br>30 points | These should be conducted by relvant recognized authorities<br>- local or international.<br>Verified by the CPD committee<br>Points are given only once upon success ful completion of studies. | 30 Points |
| A10 | Degree / Masters Programs / Post Graduate Programs for (Each<br>stage of examination passed).<br>PhD / Dr PhD. | 20 points per semester | Only Courses related tocore business. | 40 points |
| A11 | Involvement as committee or project member<br>Quality Projects<br>(QA / QCC / Lead assessor / Corporate Culture / MS ISO, Accreditation, etc.)<br>Research Project s as researcher, collaborator.<br>Research activities as datacollector. | 5 points for involvement in each area | Verified appointmentletter by relevant authority. | 20 Points |

| | NON-CORE ACTIVITES (CATEGORY B) | | | |
|---|---|---|---|---|
| B1 | Editor.<br>Member of editorial Board<br>Referee / Reviewer(per article ). | 10 points<br>5 points<br>5 points | Pertaining to production of journal, special reports bulletins newsletters etc. | 10 points |
| B2 | Other supporting activities related to :<br>Personal Development<br>Leadership.<br>Management.<br>IT.<br>Organizing/committee.<br>Member of professional body etc. | Points peractivity | These activities are not restricted to MOH function e.g involvementin *PIBG* may also be considered.<br>Documented evidence with verification needs to be produced. | 10 points |
| | Level:<br>Local.<br>State.<br>National.<br>International. | 5 points<br>5 points<br>5 points<br>10 points | Self-interest for personal development.<br><br>Documented evidence with verification needs to be produced. | |
| B3 | Attending Annual General Meeting of Societies / Association / NGO approved under *JPA* list for unrecordedleave. | 5 points /activity | Member in benefit of Societies / Associations. | 10 points |

Note :

1. Maximum points refers to maximum that will be accepted for each category, and will be taken into account for annual CPD / *PTK* points (attending 3 conference in one year only in a maximum of 20 points being awarded).
2. For all activities, certificate of attendance, certified attendance list, or other evidence for verification are required.

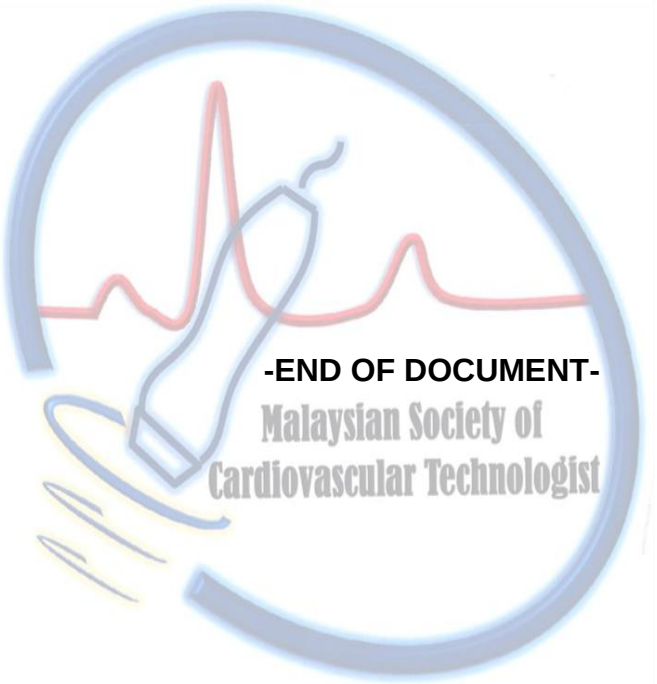
## Verification of CPD Point By Supervisor

| CPD Category | Verification Accepted |
|---|---|
| **A1** | Proof of attendance |
| **A2** | Proof of attendance<br>(Certificate or letter of participation) |
| **A3** | Proof of attendance<br>(Certificate or letter of participation) |
| **A4** | Proof from attendance records |
| **A5** | Certificate or Letter of appreciation for activity conducted |
| **A6** | Verified presentation or publication in programme book, abstract book, proceedings or journal |
| **A7** | Proof from CME provider or synopsis of article |
| **A8** | Proof from CME-online provider |
| **A9** | Proof of post-basic or other diploma certificate |
| **A10** | Certificate or exam result |
| **A11** | Letter of appreciation or appointment for activity |
| **B1** | Documentation of position held from journel or editorial board, or Letter of appoinment |
| **B2** | Certificate or Letter of appreciation / appoinment for activity |
| **B3** | Letter, any evidence from NGO or Societes |

## Appendix 4: List of additional documents required for candidates with international CVT education:

1) Copy of Malaysian I/C (Identification Card)
2) Copy of SPM or equivalent certificate (Malaysian Certificate of Education or an equivalent qualification)
3) Verified true copy of CVT degree certificate
4) Document confirming accreditation of the degree program by the national education accreditation agency of the country.

.




**-END OF DOCUMENT-**