Spring 2014 Testing Period

Application Deadline
March 22, 2014

Testing Window
Begins: May 3, 2014
Ends: May 10, 2014

Summer 2014 Testing Date

Application Deadline
April 23, 2014

Testing Date
June 3, 2014
(Philadelphia, PA only)

Fall 2014 Testing Period

Application Deadline
September 20, 2014

Testing Window
Begins: November 1, 2014
Ends: November 8, 2014
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International Certification Commission (ICC)
Phone +1-703- 525-4890 Fax +1-703- 276-0793 www.aami.org

Professional Testing Corporation (PTC)
Phone +1-212- 356-0660 Fax +1-212- 356-0678 www.ptcny.com

PSI
Phone 1-800- 211-2754
INTRODUCTION

ICC Certification

The Certification for Biomedical Equipment Technicians (BMET) is a formal recognition by the International Certification Commission for Clinical Engineering and Biomedical Technology (ICC) that individuals have demonstrated excellence in theoretical as well as practical knowledge of the principles of biomedical equipment technology.

Purpose of Certification

In today’s health care market, technology is paramount. The need for a workforce knowledgeable in the theory of operation, underlying physiological principles, and safe application of biomedical equipment is a central concern of many hospitals and companies. Certification demonstrates that successful applicants have the knowledge to ensure a safe, reliable health care environment. It also demonstrates to employers a significant commitment to career and competence.

Statement of Non-Discrimination

The ICC does not discriminate on the basis of sex, race, religion, national origin, marital status, disability, or any other characteristics protected by law.

Code of Conduct

Healthcare technology management professionals are defined by a standard of conduct, which is committed to performance improvement and maintaining integrity, recognized personal accountability and moral obligation to clients, employers, organizations, patients, and public.

I shall:

1) Abide by ethical codes related to the healthcare technology management profession and to general public health and safety and avoid dishonest, unethical or illegal practices;
2) Be truthful, forthcoming, and cooperative in my dealings with the ICC;
3) Be in continuous compliance with ICC’s policies and requirements (as amended from time to time by ICC);
4) Strive to remain abreast of current technology and to study and apply technological advances in the healthcare technology management field;
5) Accept responsibility in making decisions consistent with the safety, health, and welfare of the public;
6) Work to enhance the safe and effective use of healthcare technology.

Types of Certification

The Board of Examiners for Biomedical Equipment Technicians, operating under the direction of the United States Certification Commission (USCC) and the ICC, maintains the certification programs for biomedical equipment technicians (CBET), radiology equipment specialists (CRES), and laboratory equipment specialists (CLES). One certification is not a prerequisite for another. Each certification (CBET, CRES, CLES) requires a separate, complete application and a separate examination. Applicants may test in only one discipline per testing window.
Full Certification
Certified Biomedical Equipment Technician (CBET), Certified Radiology Equipment Specialist (CRES)*, or Certified Laboratory Equipment Specialist (CLES)*:

Applicants must meet ONE of the following minimum eligibility requirements as of the application deadline:

1. Associate’s degree in biomedical equipment technology program and two years full-time BMET work experience; OR
2. Completion of a U.S. military biomedical equipment technology program and two years full-time BMET work experience; OR
3. Associate’s degree in electronics technology and three years full-time BMET work experience; OR
4. Four years full-time BMET work experience.

Additional eligibility routes for CLES Applicants only:

5. Associate’s degree in medical laboratory technology and three years full-time BMET work experience; OR
6. Bachelor’s degree in medical laboratory technology and two years full-time BMET work experience.

*CRES and CLES Applicants for full certification: At least 40% of work experience over the last two years or 25% over the last five years must be in the designated specialty area.

Candidate Status
Applicants desiring Full certification, but who do not yet meet the eligibility requirements (as listed above), have the opportunity to apply through candidate status. Successful candidates are given five years to meet the minimum eligibility requirements and be awarded Full certification.

To test as a candidate for any of the certifications, an applicant must meet ONE of the following minimum eligibility requirements as of the application deadline:

1. Associate’s degree in biomedical equipment technology program; OR
2. Completion of a U.S. military biomedical equipment technology program; OR
3. Associate’s degree in electronics technology and one year full-time BMET work experience; OR
4. Two years of full-time BMET work experience.

Additional eligibility routes for CLES Applicants only:

5. Associate’s degree in medical laboratory technology and one year full-time BMET work experience; OR
6. Bachelor’s degree in medical laboratory technology.

IMPORTANT: If claiming eligibility based in full or in part on an Associate’s or Bachelor’s degree, a copy of the diploma MUST be included with the Application and fees. A copy of the diploma is required for individuals applying under the completion of a U.S. military biomedical program. Official college transcripts may be requested at the discretion of the application reviewer, but required from international applicants. NOTE: A Bachelor’s degree does not replace work experience requirements.

AAMI Membership is not a prerequisite for certification.
APPLICATION PROCEDURES

Schedule and Deadlines

Spring 2014 Testing Period

Application Deadline: March 22, 2014
Testing Window: May 3, 2014 – May 10, 2014 at any PSI testing center

Summer 2014 Testing Date

Application Deadline: April 22, 2014
Test Date: June 3, 2014 – in Philadelphia, PA only

Fall 2014 Testing Period

Application Deadline: September 20, 2014
Testing Window: November 1, 2014 – November 8, 2014 at any PSI testing center

Obtaining an Application

To obtain additional Handbooks and Applications for the ICC Examinations contact Professional Testing Corporation at 1350 Broadway, 17th Floor, New York, NY 10018, +1 (212) 356-0660, or www.ptcny.com.

Be sure to use the most current Application. Outdated Applications will be returned.

Scheduling Your Appointment and Testing Center

The exam application must be submitted to the Professional Testing Corporation (PTC) by the set deadline for approval. Once your Application has been received, processed and your eligibility verified, you will be mailed an eligibility notice approximately four weeks prior to the start of the testing period which will indicate how to schedule your examination appointment. As soon as you receive your eligibility notice, please contact PSI to schedule your appointment as they are on a first-come first-serve basis. It is the candidate’s responsibility to contact PSI (the test administrators) to schedule the exam appointment.

The eligibility notice plus current valid government-issued photo identification must be presented in order to gain admission to the testing center. A candidate not receiving an eligibility notice at least three weeks before the beginning of the testing period should contact the Professional Testing Corporation (PTC) by telephone at +1 (212) 356-0660.

The ICC Examinations are three hour examinations administered during an established one-week testing window, Saturday through Saturday, excluding holidays, at computer-based testing facilities managed by PSI. Hours and days of availability vary at different centers. PSI has several hundred testing sites in the United States, as well as Canada. To find a testing center near you visit: http://www.ptcny.com/cbt/sites.htm or call PSI at (800) 211-2754.

Please note:

It is highly recommended that each candidate become familiar with the location of the testing site. Arrival at the testing site at the appointed time is the responsibility of the candidate. Please plan for weather, traffic, parking, and any security requirements that are specific to the testing location. Late arrival may prevent you from testing.

It is the candidate’s responsibility to contact PSI (the test administrators) to schedule the exam appointment.

Special Accommodations

Special testing arrangements will be made for individuals with special needs. Submit the Application, fee(s), and a completed and signed Request for Special Accommodations Form, available from www.ptcny.com or by calling PTC at +1 (212) 356-0660. Requests for special testing for individuals with special needs must be received at least EIGHT weeks before the testing date.

Please notify PTC at least two weeks prior to your test appointment if you need to bring a service dog, medicine, food, or beverages necessary for a medical condition with you to the test center.
Military Personnel

If an applicant is in the military, lives on a non-domestic US military base, and cannot leave that base to take the examination at an established testing center, special arrangements can be made for testing on base. However, examinations must take place during the testing period listed on the cover of the Handbook. Complete the Request for Special Test Center Form (available at www.ptcny.com) and submit it to Professional Testing Corporation at least EIGHT weeks before the examination date. The Special Testing Center Fee is NOT required.

If you are requesting a group special test center at a military base, all the applications and required documentation must be submitted in one package with a cover letter providing the name and mailing address for the base education officer. All fees and other documentation such as diplomas must be submitted with the applications.

Special Test Centers Excluding the United States and Parts of Canada

It may be possible to establish a special testing center to take a paper and pencil examination outside of the United States for an additional fee of $100. The Request for Special Test Center Form (available at www.ptcny.com) must be sent with your application and fees, specifying your preferred city and country and must be received eight weeks before the testing period begins. If there are no computer test centers in your province in Canada, you can follow this same procedure or travel to the closest computerized testing center in the United States to take the examination. You will be contacted by e-mail to confirm your test center. All of the applications for a group international test center must be submitted in one package, with all the fees and original documentation included, plus a cover letter specifying the city and country where the special test center is being requested. PTC is not responsible for following up on credit card payments – the candidate is responsible for paying the fees at the time his application is submitted.

Fees and Payment Methods

<table>
<thead>
<tr>
<th>Application Fees:</th>
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<tbody>
<tr>
<td>AAMI Members (Full or Candidate Status)</td>
<td>$300</td>
</tr>
<tr>
<td>Non-AAMI Members (Full or Candidate Status)</td>
<td>$375</td>
</tr>
<tr>
<td>Special Testing Center Fee per applicant (for candidates outside the U.S. or Canada)</td>
<td>$100</td>
</tr>
</tbody>
</table>

NOTE: Pay the Special Testing Center Fee ONLY if a Special Testing Center is being requested (see above for instructions).

The reduced application fee for AAMI members is non-transferable between individuals or within departments and is available only to those individuals whose AAMI membership dues are paid in full at the time of exam registration.

Payment Methods:

CHECKS: Make checks payable to: ICC Examinations.

CREDIT CARDS: To use Visa, MasterCard, or American Express, complete and sign the Credit Card Payment section on Part I, Page 2 of the Application.

Applications received without appropriate fees will be returned unprocessed!

Transfers, Rescheduling, and Refunds

Cancellations and requests for refunds must be in writing.

Applicants who choose not to take the examination may receive a partial refund of 50% of the application fee if the written request is received within 30 days after the original testing date. Requests for refunds will not be honored after the 30 days.

Applicants unable to take the examination as scheduled may request a transfer to another testing period. Please send a written request with the rescheduling fee of $100 to the Professional Testing Corporation within 30 days after the testing period has ended. Candidates who cannot attend the examination on the date for which they are registered and who fail to submit a written request with the rescheduling fee within the time frame set will have their application closed and must complete the Application process from the beginning in order to take the examination and their fees will be forfeited. The rescheduling fee is based on cost, and is not punitive in nature and must be paid at the time the transfer request is made.

The rescheduling fee cannot be refunded. Once applicants choose to reschedule, they cannot request a refund of either the rescheduling fee or of the original fee(s).

Exams may only be rescheduled once, please plan carefully.

For last minute cancellations, please call +1 (212) 356-0660 before the examination date, and follow up immediately with written notice. Please address written notification to ICC in care of Professional Testing Corporation, 1350 Broadway, 17th Floor, New York, NY 10018.

Candidates are responsible for calling PSI at 1-800-211-2754 to cancel their original appointments.
EXAMINATION FOR CERTIFIED BIOMEDICAL EQUIPMENT TECHNICIAN (CBET)

I. Anatomy and Physiology (Approximately 12%)
   A. Systems
      1. Respiratory
      2. Gastrointestinal
      3. Nervous
      4. Circulatory
      5. Musculoskeletal
      6. Endocrine
   B. Organs
      1. Heart
      2. Lungs
      3. Liver
      4. Kidneys
      5. Brain
      6. Gallbladder
      7. Pancreas
      8. Other
   C. Blood
      1. Components
      2. Metabolism
   D. Terminology

II. Public (employee, patient, visitor) Safety in the Healthcare Facility (Approximately 15%)
   A. Electrical
      1. Microshock/Electrical Safety Testing
      2. Other
   B. Chemical
      1. Material Safety Data Sheet
      2. Other
   C. Radiation Hazards
      1. Light Spectrum
      2. Types of Rays
   D. Biological
      1. Standard Precautions
      2. Other
   E. Fire
      1. Class
      2. Fire Extinguishers
   F. Codes and Standards
      1. Credentialing and Certification
         a. Joint Commission Comprehensive Accreditation Manual
         b. AABB
         c. American College of Radiology
      2. NFPA 99
         a. Gas and Vacuum Systems
         b. Electrical Systems
      3. FDA
         a. SMDA
         b. Other
      4. OSHA
      5. Other (NEC, ANSI, FCC, etc.)
III. Fundamentals of Electricity and Electronics (Approximately 13%)
A. Transducers
B. Calculations and Conversions
   1. Hex/Decimal/Binary
   2. Other
C. Circuits and Components
   1. Active Devices
      a. Solid-State Devices
      1. Analog
      2. Digital
      b. Other (CRTs, X-Ray tubes, photomultipliers, etc.)
   2. Power Supplies
   3. Passive Devices
D. Power Distribution and Storage Systems
   1. Transformers
   2. Distribution
   3. Batteries
   4. UPS/Line Conditioning
E. Terminology

IV. Healthcare Technology Function and Operation (Approximately 25%)
A. Monitoring Systems (ECG, EEG, Blood Pressure, Pulse Oximetry, Fetal Monitor)
B. Portable Equipment (Infusion Devices, Syringe Pumps, PCA Pumps, Hypo Hyperthermia)
C. Life Support Equipment (Defibrillators, Anesthesia Machines, Critical Care Ventilators, Balloon Pumps)
D. Therapeutic Equipment (Infant Warmers, Ultrasound Therapy)
E. Laboratory Equipment (Centrifuges, Water Baths, Analyzers)
F. Diagnostic Imaging (Ultrasound, Radiographic/Fluoroscopy)
G. Operating Room (Electro Surgical Generators, Video Carts, Lasers, Tourniquets, Sterilizers, Warmers)
H. Test Equipment (Electrical Safety, Defibrillator, Electro Surgical, Physiologic Simulators, Oscilloscopes, Meters)
I. Diagnostic Equipment
J. Terminology

V. Healthcare Technology Problem Solving (Approximately 25%)
A. Electronic Component Level, Block Level
B. Monitoring Systems (ECG, EEG, Blood Pressure, Pulse Oximetry, Fetal Monitor)
C. Portable Equipment (Infusion Devices, Syringe Pumps, PCA Pumps, Hypo Hyperthermia)
D. Life Support Equipment (Defibrillators, Hemodialysis, Anesthesia Machines, Critical Care Ventilators, Balloon Pumps)
E. Therapeutic Equipment (Infant Warmers, Ultrasound Therapy)
F. Laboratory Equipment (Centrifuges, Water Baths, Analyzers)
G. Diagnostic Imaging (Ultrasound, Radiographic/Fluoroscopy)
H. Operating Room (Electro Surgical Generators, Video Carts, Lasers, Tourniquets, Sterilizers, Warmers)
I. Diagnostic Equipment
J. Situational (User Error, User Training, Applications)

VI. Healthcare Information Technology (Approximately 10%)
A. Regulatory and Safety
   1. Medical Device Data Systems (MDDS)
   2. IEC 80001 – Application of Risk Management for IT Networks
   3. Health Insurance Portability and Accountability Act (HIPAA)
   4. Digital Millennium Copyright Act (DMCA)
B. Foundations
   1. Hardware
      a. Topology
      b. PCs/Laptops/Servers
      c. Wiring/Structured Cabling/Connectors
      d. Switches/Hubs/Routers
      e. Wireless Communications
      f. Other
   2. Software/Middleware/Applications
      a. EMR/EHR
      b. Healthcare Information Systems (PACs, LIS, RIS)
      c. Network Protocols (IP, CCP, UDP)
      d. Operating Systems
C. Function and Operation
   1. Hardware
      a. PCs, Switches, Patch Panels
      b. Networks, Topology
      c. Peripherals
      d. Other
   2. Integration
      a. Bedside Medical Device Integration (BMDI)
      b. Medical Device Integration (MDI) (Labs, Printers, etc.)
      c. Mobile Devices (Handhelds, Smart Phones, Tablets, etc.)
   3. Test Equipment
      a. Cable Test Devices (Copper, Fiber)
      b. Network Test Devices
   4. Security
D. Problem Solving
   1. Computer Networks
   2. Integration
   3. PCs, Switches, Hubs
E. Terminology
### EXAMINATION FOR CERTIFIED RADIOLOGY EQUIPMENT SPECIALIST (CRES)

#### I. Anatomy and Physiology (Approximately 12%)

**A. Systems**
1. Respiratory
2. Gastrointestinal
3. Nervous
4. Circulatory
5. Musculoskeletal
6. Endocrine

**B. Organs**
1. Heart
2. Lungs
3. Liver
4. Kidneys
5. Brain
6. Gallbladder
7. Pancreas
8. Other

**C. Blood**
1. Components
2. Metabolism

**D. Terminology**

#### II. Public (employee, patient, visitor) Safety in the Healthcare Facility (Approximately 15%)

**A. Electrical**
1. Microshock/Electrical Safety Testing
2. Other

**B. Chemical**
1. Material Safety Data Sheet
2. Other

**C. Radiation Hazards**
1. Light Spectrum
2. Types of Rays

**D. Biological**
1. Standard Precautions
2. Other

**E. Fire**
1. Class
2. Fire Extinguishers

**F. Codes and Standards**
1. Credentialing and Certification
   a. Joint Commission Comprehensive Accreditation Manual
   b. American College of Radiology
2. NFPA 99
   a. Gas and Vacuum Systems
   b. Electrical Systems
3. FDA
   a. MQSA
   b. CFR Title 21
   c. SMDA
4. OSHA
5. Other (NEC, ANSI, FCC, etc.)
III. Fundamentals of Electricity and Electronics (Approximately 13%)

A. Transducers
B. Calculations and Conversions
   1. Hex/Decimal/Binary
   2. Other
C. Circuits and Components
   1. Active Devices
      a. Solid-State Devices
      1. Analog
      2. Digital
      b. Other (CRTs, X-Ray tubes, photomultipliers, etc.)
   2. Power Supplies
   3. Passive Devices
D. Power Distribution and Storage Systems
   1. Transformers
   2. Distribution
   3. Batteries
   4. UPS/Lines Conditioning
E. Terminology

IV. Healthcare Technology Function and Operation (Approximately 25%)

A. Equipment Types
   1. Test Equipment
   2. Film Processors
   3. X-Ray Tubes
   4. TV Camera
   5. Intensifying Screens
   6. Image Intensifier
   7. Other
B. Systems
   1. X-Ray Machines
   2. Nuclear Medicine
   3. Magnetic Resonance Imaging
   4. Linear Tomography Systems
   5. Ultrasound – Diagnostics
   6. Mammography
   7. Digital Imaging
   8. CT
   9. Health Care Information Systems (PACS, LIS, RIS)
   10. Other (Support Equipment, EKG, Defibrillator)
C. Quality Control
D. Terminology

V. Healthcare Technology Problem Solving (Approximately 25%)

A. Component Level (Electronic Circuit)
B. Equipment Types
   1. Film Processors
   2. X-Ray Tubes
   3. TV Cameras/Displays
   4. Intensifying Screens
   5. Image Intensifier
   6. Digital Imaging
   7. CT
   8. Other (Support Equipment, EKG, Defibrillator)
C. Systems
   1. X-Ray Machines
   2. Nuclear Medicine
   3. Magnetic Resonance Imaging
   4. Linear Tomography Systems
   5. Ultrasound – Diagnostic
   6. Mammography
   7. Other
D. Situational
   1. Prioritizing Work
   2. Operator vs. Equipment
   3. Applications
## VI. Healthcare Information Technology (Approximately 10%)

### A. Regulatory and Safety
1. Medical Device Data Systems (MDDS)
2. IEC 80001 – Application of Risk Management for IT Networks
3. Health Insurance Portability and Accountability Act (HIPAA)
4. Digital Millennium Copyright Act (DMCA)

### B. Foundations
1. Hardware
   a. Topology
   b. PCs/Laptops/Servers
   c. Wiring/Structured Cabling/Connectors
   d. Switches/Hubs/Routers
   e. Wireless Communications
   f. Other
2. Software/Middleware/Applications
   a. EMR/EHR
   b. Healthcare Information Systems (PACS, LIS, RIS)
   c. Network Protocols (IP, CCP, UDP)
   d. Operating Systems
   e. Other

### C. Function and Operation
1. Hardware
   a. PCs, Switches, Patch Panels
   b. Networks, Topology
   c. Peripherals
   d. Other
2. Integration
   a. Bedside Medical Device Integration (BMDI)
   b. Medical Device Integration (MDI) (Labs, Printers, etc.)
   c. Mobile Devices (Handhelds, Smart Phones, Tablets, etc.)
3. Test Equipment
   a. Cable Test Devices (Copper, Fiber)
   b. Network Test Devices

### D. Problem Solving
1. Computer Networks
2. Integration
3. PCs, Switches, Hubs

### E. Terminology
EXAMINATION FOR CERTIFIED LABORATORY EQUIPMENT SPECIALIST (CLES)

I. Anatomy and Physiology (Approximately 12%)

A. Systems
   1. Respiratory
   2. Gastrointestinal
   3. Nervous
   4. Circulatory
   5. Musculoskeletal
   6. Endocrine

B. Organs
   1. Heart
   2. Lungs
   3. Liver
   4. Kidneys
   5. Brain
   6. Gallbladder
   7. Pancreas
   8. Other

C. Blood
   1. Components
   2. Metabolism

D. Terminology

II. Public (employee, patient, visitor) Safety in the Healthcare Facility (Approximately 15%)

A. Electrical
   1. Microshock/Electrical Safety Testing
   2. Other

B. Chemical
   1. Material Safety Data Sheet
   2. Other

C. Radiation Hazards
   1. Light Spectrum
   2. Types of Rays

D. Biological
   1. Standard Precautions
   2. Other

E. Fire
   1. Class
   2. Fire Extinguishers

F. Codes and Standards
   1. Credentialing and Certification
      a. Joint Commission Comprehensive Accreditation Manual
      b. College of American Pathologists
      c. Clinical Laboratory Improvement Amendments
      d. COLA (formerly known as Commission on Laboratory Accreditation)
      e. AABB (formerly known as American Association of Blood Banks)
   2. NFPA 99
      a. Gas and Vacuum Systems
      b. Electrical Systems
   3. FDA
      a. SMDA
      b. Other
   4. OSHA
   5. Other (NEC, ANSI, FCC, etc.)
III. Fundamentals of Electricity and Electronics (Approximately 13%)

A. Transducers
B. Calculations and Conversions
   1. Hex/Decimal/Binary
   2. Other
C. Circuits and Components
   1. Active Devices
      a. Solid-State Devices
      1. Analog
      2. Digital
      b. Other (CRTs, X-ray tubes, photomultipliers, etc.)
   2. Power Supplies
   3. Passive Devices
D. Power Distribution and Storage Systems
   1. Transformers
   2. Distribution
   3. Batteries
   4. UPS/Line Conditioning
E. Terminology

IV. Healthcare Technology Function and Operation (Approximately 25%)

A. Equipment Types
   1. Test Equipment
   2. Common Lab Equipment
      a. Centrifuges
      b. Microscopes
      c. Blood Gas Analyzers
      d. Refrigerators
   3. Chemistry Equipment
   4. Hematology Equipment
   5. Microbiology Equipment
   7. Urinalysis Equipment
   8. Histology Equipment
   9. Other
B. Systems
   1. Lab Information
   2. Other
C. Quality Control
D. Terminology

V. Healthcare Technology Problem Solving (Approximately 25%)

A. Component Level (Electronic Circuit)
B. Equipment Types
   1. Common Lab Equipment
      a. Centrifuges
      b. Microscopes
      c. Blood Gas Analyzers
      d. Refrigerators
   2. Chemistry Equipment
   3. Hematology Equipment
   4. Microbiology Equipment
   5. Blood Bank Equipment
   6. Urinalysis Equipment
   7. Histology Equipment
   8. Other
C. Systems
   1. Lab Information
   2. Other
D. Situational
   1. Prioritizing Work
   2. Operator vs. Equipment
   3. Applications
   4. Other
VI. Healthcare Information Technology (Approximately 10%)

A. Regulatory and Safety
   1. Medical Device Data Systems (MDDS)
   2. IEC 80001 – Application of Risk Management for IT Networks
   3. Health Insurance Portability and Accountability Act (HIPAA)
   4. Digital Millennium Copyright Act (DMCA)

B. Foundations
   1. Hardware
      a. Topology
      b. PCs/Laptops/Servers
      c. Wiring/Structured Cabling/Connectors
      d. Switches/Hubs/Routers
      e. Wireless Communications
      f. Other
   2. Software/Middleware/Applications
      a. EMR/EHR
      b. Healthcare Information Systems (PACs, LIS, RIS)
      c. Network Protocols (IP, CCP, UDP)
      d. Operating Systems
      e. Other

C. Function and Operation
   1. Hardware
      a. PCs, Switches, Patch Panels
      b. Networks, Topology
      c. Peripherals
      d. Other
   2. Integration
      a. Bedside Medical Device Integration (BMDI)
      b. Medical Device Integration (MDI) (Labs, Printers, etc.)
      c. Mobile Devices (Handhelds, Smart Phones, Tablets, etc.)
   3. Test Equipment
      a. Cable Test Devices (Copper, Fiber)
      b. Network Test Devices
   4. Security

D. Problem Solving
   1. Computer Networks
   2. Integration
   3. PCs, Switches, Hubs

E. Terminology
## Educational Resources

The following is not intended to be a complete listing of every source available, nor should applicants feel they must purchase and study every item on this list. Most texts in a particular category are redundant. The list is purposely long to increase the probability that everyone will have access to at least some of the sources listed. Other generally accepted texts may be of equal value in preparation for the examinations.

### Anatomy, Physiology, and Medical Terminology (General/Radiology/Laboratory)


### Safety and Regulatory—Public and Patient Safety in the Health Care Facility (General/Radiology/Laboratory)


CLIA: Clinical Laboratory Improvement Amendments [http://www.fda.gov/cdrh/cla/](http://www.fda.gov/cdrh/cla/)


Health Care Abbreviations and Acronyms [https://www.aami.org/certification/download/HealthcareAbbreviations.pdf](https://www.aami.org/certification/download/HealthcareAbbreviations.pdf)


### Electronics and Devices (General/Radiology/Laboratory)


### Biomedical Instrumentation (General)


Health Care Information Technology


Radiology


Laboratory


Study Guides and Review Courses

It is considered a conflict of interest for any certifying organization or commission to help individuals attain the credential it issues. The Board of Examiners, the USCC, and the ICC do not sponsor or endorse any refresher course, study guides, or study materials of any kind. Contact a local biomedical society or ask colleagues about organizing study groups or arranging for review courses.

Testing Software Demonstration

A tutorial of the testing software can be viewed online. Go to https://candidate.psiexams.com/tutorial.jsp

This online Testing Software can give you an idea about the features of the testing software.
Sample Exam Questions

I. Anatomy & Physiology
The biomedical equipment technician (BMET) must be able to communicate intelligently with physicians and hospital staff members. To fulfill the BMET’s responsibilities in safety, calibration, and related areas, the BMET must have a reasonable knowledge of anatomy and physiology. The knowledge should include familiarity with terminology and body functions.

1. In fresh, normal human blood, the volume of cells is what percent of the total volume?
   1. 25%
   2. 45%
   3. 80%
   4. 90%

II. Public Safety in the Health Care Facility
This area includes all aspects of safety relating to the health care facility. Each specialist examination (Radiology & Laboratory) emphasizes safety in the specialty.

2. What are the three components of an ordinary fire?
   1. Gas, liquid, vapor
   2. Smoke, flame, heat
   3. Fuel, heat, oxygen
   4. Flames, sparks, explosions

III. Fundamentals of Electricity and Electronics
Fundamental to many functions of the BMET is knowledge of basic electricity and electronics. Test items in this area call for:
   a. An understanding of current and voltage relationships in AC and DC circuits.
   b. The ability to apply fundamental mathematical formulae to circuitry.
   c. An understanding of semiconductor theory and the principles of solid-state circuitry.
   d. An understanding of electronic test and measuring equipment function.

3. In a single-stage amplifier with a transistor in common-emitter configuration featuring a purely resistive load, the emitter voltage and the collector voltage are
   1. in phase.
   2. not related.
   3. 90° out of phase.
   4. 180° out of phase.

IV. Healthcare Technology Function and Operation
The BMET should possess a broad knowledge of equipment and instrumentation in the medical environment. The BMET’s knowledge should include the theory of operation, clinical application, and unique safety requirements relating to items such as: (1) coronary and critical care equipment; (2) spectrophotometers, colometers, centrifuges, and other instruments in a clinical laboratory; (3) suction and pressure units; (4) anesthesia machines, ventilators, intra-aortic balloon pumps, and infusion devices; (5) diathermy and ultrasound units; (6) X-ray equipment; and (7) sterilizers.

4. A sphygmomanometer is used for
   1. measuring blood pressure.
   2. collecting urine for analysis.
   3. measuring respiration rate.
   4. high-speed counting of erythrocytes.
V. Healthcare Technology Problem Solving
The BMET must be able to perform theoretical troubleshooting using schematics ranging from the simple, serologic water bath to one for an electrocardiograph.

5. A dampened waveform on an invasive blood pressure monitor is usually caused by

1. a defective monitor.
2. air bubbles in the fluid system.
3. the transducer being above the patient.
4. the transducer being below the patient.

VI. Healthcare Information Technology
A BMET must have a fundamental knowledge of computer based systems, used in conjunction with modern medical systems. The BMET’s knowledge should include the theory and operation of microprocessor circuits, computer interfaces and networking devices and LAN topography.

6. Which of the following devices automatically assigns IP addresses?

1. Router
2. Switch
3. Repeater
4. DHCP server

CORRECT ANSWERS TO SAMPLE QUESTIONS:
1. 2  2. 3  3. 4  4. 1  5. 2  6. 4


**DURING THE EXAMINATION**

**Rules for the Examination and Test Security**

1. Electronic devices including, but not limited to, cell phones, pagers, Bluetooth type devices, MP3 players such as iPods, laptop computers, tablets, cameras, and voice recorders cannot be operative during the examination.

2. No papers, books, or reference materials may be taken into or removed from the examination room.

3. Only calculators that are classified as simple based calculators that have 10 numbers (0,1,2,3,4,5,6,7,8,9), add (+), subtract (-), multiply (x), divide (/) and equals (=) functions, which have no programming options or preconfigured buttons with formulas or calculations (summations, financial computations, etc.) may be used. These calculators may have an "M" button which is for memory. It only memorizes numbers, not calculations, formulas, etc. It is the responsibility of the applicant to clear any information and/or programs stored before the examination. The use of any calculator with unacceptable features or for retrieval of information/programs during the examination is considered an act of cheating. Calculators which are included as part of cellular phones, blackberries, and other communication devices will not be permitted. Most formulas and any schematics that may be needed are provided. A calculator is also available on screen if needed.

4. Applicants must bring several sharpened number 2 pencils (with erasers) to the testing center (paper and pencil examination only).

5. Candidates are prohibited from leaving the testing room while their examination is in session, with the sole exception of going to the restroom.

6. No questions concerning content of the examination may be asked during the examination. The candidate should read carefully the directions that are provided on screen at the beginning of the examination session.

7. Individuals may not take the examination for a certification which they currently hold (active or inactive).

ICC prohibits certain behaviors, including but not limited to the activities listed below:
- Copying test questions
- Copying answers
- Permitting another to copy answers
- Sharing exam content with others
- Falsifying information required for admission to an examination impersonating another examinee
- Taking the examination for any reason other than the purpose of seeking certification

**Cheating**

Any applicant failing to adhere to the “Rules for the Examination” as listed above will be considered guilty of cheating and will not be allowed to continue the examination. Fees are forfeited and no grade will be given.

**Examination Format and Content**

The examination is three hours long and consists of 165 questions. It is administered within a specified one-week testing window. Exams in the U.S. and Canada use a computer-based testing format (CBT). Exams elsewhere use a paper-based testing format (PBT).

**Admission to Testing Center**

Your eligibility notice plus current valid government-issued photo identification, such as a driver’s license or passport, must be presented in order to gain admission to the testing center. The name on your eligibility notice must match the name on your photo ID in order to gain admission.

A candidate not receiving an eligibility notice at least three weeks before the beginning of the testing period should contact the Professional Testing Corporation (PTC) by telephone at +1 (212) 356-0660 with their fax number or valid email address.
AFTER THE EXAMINATION

Reporting of Results
Applicants will receive the results of the examination from PTC within four weeks after the close of the testing period. For information purposes, the results from PTC will include a total composite score and scores for each of the six subject areas. Applicants who successfully pass the examination will receive an additional package from the ICC office. NOTE: Examination results will NOT be provided by PTC or ICC to any applicant for any reason, or under any circumstances over the telephone, by email, or by facsimile. Applicants are responsible for promptly notifying the Professional Testing Corporation and the International Certification Commission of address or name changes.

Confidentiality
It is up to each individual to notify an employer or others as to whether you have passed or failed the examination. Upon inquiry, the ICC will release information regarding the status of an individual’s certification only (i.e.- certified or not certified, active or inactive, date certification expires, and date certification was granted). Information regarding scores and whether an individual took the examination will not be released.

Attainment of Certification
Score required to pass: The minimum score required to pass the ICC Examinations is 116/165.

Passing the examination - Full status: Applicants who pass for Full certification will receive their scores from PTC and a certification package from ICC. They are authorized and encouraged to use the appropriate acronym (CBET, CRES, or CLES) to denote certification on business cards, letterheads, at signature, etc.

Passing the examination – Candidate status: Applicants who pass under Candidate status will receive their scores from PTC and a congratulatory letter from ICC. Candidates have five years in which to complete the remaining requirements and apply for upgrading to Full certification. Candidates are not eligible to represent themselves as certified but may use the congratulatory letter from ICC as proof of certification candidate in training status.

ICC and AAMI reserve the right to publish the names of those who successfully pass the exams.
Achieving certification does not constitute an AAMI membership.

Manual Recheck for Scoring
Hand scoring or manual recheck is routinely done by PTC before releasing the results of each exam. If an applicant still wishes to request an additional review and his test to be hand scored, the applicant must submit a letter to the US BMET Board of Examiners within 15 days of receiving the examination results. A $45.00 fee for additional hand scoring requests must be submitted with the request (checks made payable to ICC).

Appeals and Challenges Procedures
Applicants wishing to challenge a particular item on the examination must submit the Appeal/Challenge form to the ICC within 15 days of taking the examination. Applicants must provide as many details as possible regarding the item(s) they wish to challenge.

Applicants wishing to appeal the final score of their examination must submit the Appeal/Challenge form to the ICC within 15 days of receiving the examination results.

Retesting Procedures
Applicants who do not pass are eligible to retake the examination beginning with the next regularly scheduled examination period. There is no limit regarding the number of times the examination may be taken. With each examination taken, the full fee is required.

Individuals may not take the examination for a certification which they currently hold (active or inactive).

Revocation of Certification
Certification can be revoked for any of the following reasons:
1. Misrepresentation of certification status.
2. Falsification of the Application, including any documentation submitted.
3. Non-compliance with the certification renewal requirements.
4. Non-compliance with the ICC code of conduct.

RENEWAL PROGRAM
Certification is initially considered valid through the remainder of the year in which certification is received plus the following full calendar year. At that time it becomes necessary to renew certification and upon renewal certificants are put on a triennial schedule. A renewal notice from ICC will be sent to all individuals when it is time to renew certification.

The Certification Renewal Program ensures that those who are actively certified maintain a level of professional knowledge and skill consistent with the standard that existed when their certification was initially conferred. Certification holders are required to review the renewal program information booklet to learn about the renewal requirements, renewal cycles, and fees: https://www.aami.org/certification/renewal.html
APPENDIX

Instructions for Completing the Application

PART I

NOTE: The name you enter on your application must match exactly the name listed on your current, government-issued photo ID such as driver’s license or passport. Do not use nicknames or abbreviations.

Complete all information requested unless noted as optional on the Application. Mark one response only unless otherwise indicated.

SIGNATURE: When you have completed all required information, obtain required signatures, date and sign the Application in the space provided.

PART II

Complete all information requested on the Application. Be sure to indicate the examination for which you are applying and the eligibility option under which you are applying. Complete Section C with the appropriate information and include all requested information.

NOTE: Applications will be returned if not submitted with the required documentation and fees.

Applications MUST be postmarked by the application deadline as noted on the front cover and mailed to:

ICC Examinations
Professional Testing Corporation
1350 Broadway – 17th Floor
New York, NY 10018

Applications postmarked after the application deadline cannot be guaranteed acceptance. Applications are valid only for the requested testing period.

Applications will be reviewed to verify that applicants meet the eligibility requirements.

Once reviewed, applicants will be notified of the following:

If eligible: Applicants will be notified by PTC within approximately two weeks confirming their registration.

If ineligible: Application and fees will be returned to applicant with a notice of ineligibility.

Application Checklist

Applicants MUST include the following:

- Completed and signed Application (Part I, Part II)
- Copy of diploma (if claiming eligibility based on an Associate’s or Bachelor’s degree)
- Copy of military diploma (if using completion of U.S. military biomedical program as eligibility route)
- Official college transcript (for international applicants)
- Required Fee(s)
- Proof of AAMI Membership (for AAMI members only, can be a copy of AAMI membership card or confirmation letter)

Applications

The applications can be found online at the PTC website: http://www.ptcny.com/clients/ICC/index.html

They are also provided at the end of this handbook.

Notification of Address Change

In the event of a name or address change, please notify ICC at certifications@aami.org and PTC at ptcny@ptcny.com.

Request for Duplicate Score Report

Requests for duplicate score reports can be made directly to PTC by calling +1 (212) 356-0660. For score reports from exams more than one year old, you must submit your request in writing along with a $10 fee. Score reports cannot be sent via email or fax, so please provide your current address with your request.

Request for Special Accommodations

If you require special testing accommodations, please download and fill out the Request Form: http://ptcny.com/PDF/PTC_SpecialAccommodationRequestForm.pdf
# APPLICATION FOR EXAMINATION FOR CERTIFIED

**BIOMEDICAL EQUIPMENT TECHNICIAN**

**RADIOLOGY EQUIPMENT SPECIALIST**

**LABORATORY EQUIPMENT SPECIALIST**

---

**MARKING INSTRUCTIONS:** This form will be scanned by computer, so please make your marks heavy and dark, filling the circles completely. Please print uppercase letters and avoid contact with the edge of the box. See example provided.

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## PART I

*Please read the directions in the Handbook for Applicants carefully before completing this Application.*

Please enter your Name exactly as it appears on a Government-Issued Photo ID.

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<th>First Name</th>
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<th>Apartment Number</th>
<th>City</th>
<th>State/Province</th>
<th>Zip/Postal Code</th>
<th>Email Address (Please enter only ONE email address. Use two lines if your email address does not fit in one line.)</th>
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**Daytime Phone:**

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**A. Testing Date:**

- Spring
- Fall
- Annual Conference

**B. For which examination are you applying?**

- Certified Biomedical Equipment Technician
- Certified Radiology Equipment Specialist
- Certified Laboratory Equipment Specialist

**C. Have you taken this examination before?**

- Yes
- No

*If yes, when did you last take the examination?*

**Date (month/year):**

---

**D. For which status are you applying?**

- Full certification
- Candidate Status

**E. Primary practice setting:**

- Dialysis Center
- Educational Institution
- Equipment Distributor (retail)
- Equipment Manufacturer
- Government Agency
- Hospital (nonprofit)
- Hospital (for profit)
- Independent Medical Facility
- Independent Medical Practice
- Independent Research Lab
- Independent Repair Service
- Military
- Self-employed Service Technician
- Other (specify)

**F. How long have you been employed in the biomedical field?**

- Less than 1 year
- 1 to 3 years
- 4 to 10 years
- More than 10 years

*Complete Page 2*
PART I (continued)

J. What is the primary reason you wish to become certified?
- Preparation for seeking employment in the biomedical field
- Preparation for seeking a new position in the biomedical field
- Required by current employer
- To qualify for a higher professional position with current employer
- To qualify for a salary increase with current employer
- Personal choice/professional pride
- Other (specify) ____________________________

K. Are you an AAMI member?
- No
- Yes

OPTIONAL INFORMATION

Note: Information related to race, age, and gender is optional and is requested only to assist in complying with general guidelines pertaining to equal opportunity. Such data will be used only in statistical summaries and in no way will affect your test results.

Race:
- African American
- Asian
- Caucasian
- Hispanic
- Native American
- No Response

Age Range:
- Under 25
- 25 to 29
- 30 to 39
- 40 to 49
- 50 to 59
- 60+

Gender:
- Male
- Female

COMPLETE ENTIRE APPLICATION, PART I AND PART II, BEFORE SIGNING BELOW.

I certify that I have read the ICC Applicant Handbook and understand and agree to the policies set forth therein. I further certify that all information I have entered on this Application is correct. I understand that any misrepresentation regarding the information I have provided will result in the rejection of this Application and resulting examination. I understand that I must comply with the renewal policy to maintain my certification. I am aware that any certification I may receive from the International Certification Commission (ICC) will not constitute and shall not be construed as a license. I release from all liability the ICC, its examination boards and/or its agents, and I hereby authorize the ICC, its examination boards, and/or its agents to make inquiries that are necessary in ascertaining the accuracy of this Application and my eligibility for certification.

APPLICANT SIGNATURE: ____________________________ DATE: ____________

CREDIT CARD PAYMENT

If you want to charge your application fee on your credit card provide all of the following information.

Name (as it appears on your card): ____________________________

Address (as it appears on your statement): ____________________________

Charge my credit card for the total fee of: $ ______________

Expiration date (month/year): __________ / __________

Card type:  ○ Visa  ○ MasterCard  ○ American Express

Card Number: ____________________________

Signature: ____________________________

FOR OFFICE USE ONLY

Date

1020 1030 1040

Fee:

☐ CC  ☐ Check

Office Use

15120
DIRECTIONS: Part II of the Application should be completed by all applicants. Failure to complete all information requested or provide verifiable information will delay processing your Application and may make you ineligible to sit for the examination.

A. PERSONAL DATA

| Name: | __________________________________________________________ |
| Home Address: | __________________________________________________________ |

<table>
<thead>
<tr>
<th>City</th>
<th>State</th>
<th>Zip Code</th>
</tr>
</thead>
</table>

| Telephone: (Home) | __________________________ |
| Home E-mail Address: | __________________________ |

B. EMPLOYMENT DATA

| Name of Current Employer: | __________________________________________________________ |
| Work Address: | __________________________________________________________ |

<table>
<thead>
<tr>
<th>City</th>
<th>State</th>
<th>Zip Code</th>
</tr>
</thead>
</table>

| Telephone: (Work) | __________________________ |
| Work E-mail Address: | __________________________ |

| Preferred Mailing Address: | [ ] Home | [ ] Work |

C. Please complete the appropriate sections with your educational information, work experience, and military information according to the eligibility option under which you are applying (refer to the Applicant Handbook for complete information)

<p>| EDUCATION: A copy of diploma must accompany the Application if using education as part of your eligibility |</p>
<table>
<thead>
<tr>
<th>Name of School</th>
<th>Degree Attained</th>
<th>Field of Study</th>
<th>Year Degree Granted</th>
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<p>| WORK EXPERIENCE: Must be completed if using work experience as part of your eligibility |</p>
<table>
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<tr>
<th>Position Title</th>
<th>Employer</th>
<th>Employer Telephone</th>
<th>Date of Employment (month/year to month/year)</th>
<th>Full Time (F/T)</th>
<th>Part Time (P/T)</th>
<th>% of Time Spent</th>
</tr>
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</table>

| Biomed | Rad | Lab |

<p>| U.S. MILITARY BIOMEDICAL EQUIPMENT TECHNOLOGY PROGRAM: A copy of diploma must accompany the Application if using completion of a military BMET program as part of your eligibility |</p>
<table>
<thead>
<tr>
<th>Name of Military Institution</th>
<th>Course Name</th>
<th>Date Completed</th>
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</table>

| Biomed | Rad | Lab |
APPLICATION FOR EXAMINATION FOR CERTIFIED BIOMEDICAL EQUIPMENT TECHNICIAN,
RADIOLOGY EQUIPMENT SPECIALIST AND LABORATORY EQUIPMENT SPECIALIST

PART II SIDE 2

D. EXAMINATION FOR WHICH YOU ARE APPLYING

_____ Certified Biomedical Equipment Technician (CBET)     _____ Certified Radiology Equipment Specialist (CRES)     _____ Certified Laboratory Equipment Specialist (CLES)

E. CERTIFICATION STATUS FOR WHICH YOU ARE APPLYING (Choose one option only)

Applicants must meet one of the following minimum requirements as of the application deadline.

I. FULL:

   Note: To fulfill requirements for CRES or CLES, at least 40% of work experience over the last two years or 25% over the last five years MUST BE in the designated specialty area

   ____ OPTION 1: Associate’s degree in biomedical equipment technology program and two years full-time BMET work experience
   ____ OPTION 2: Completion of a U.S. military biomedical equipment technology program and two years full-time BMET work experience
   ____ OPTION 3: Associate’s degree in electronics technology and three years full-time BMET work experience
   ____ OPTION 4: Four years full-time BMET work experience
   ____ OPTION 5: Associate’s degree in medical laboratory technology and three years full-time BMET work experience (FOR CLES APPLICANTS ONLY)
   ____ OPTION 6: Bachelor’s degree in medical laboratory technology and two years full-time BMET work experience (FOR CLES APPLICANTS ONLY)

II. CANDIDATE:

   ____ OPTION 1: Associate’s degree in biomedical equipment technology program
   ____ OPTION 2: Completion of a U.S. military biomedical equipment technology program
   ____ OPTION 3: Associate’s degree in electronics technology and one year full-time BMET work experience
   ____ OPTION 4: Two years full-time BMET work experience
   ____ OPTION 5: Associate’s degree in medical laboratory technology and one year full-time BMET work experience (FOR CLES APPLICANTS ONLY)
   ____ OPTION 6: Bachelor’s degree in medical laboratory technology (FOR CLES APPLICANTS ONLY)

F. NAME AND SIGNATURE OF CURRENT SUPERVISOR (required for all options with BMET Work Experience)

I certify that the information contained in this Application and the documents presented are true to the best of my knowledge.

Printed Name of Current Supervisor ___________________________ Signature of Current Supervisor ___________________________ Telephone ___________________________ Date ___________________________

G. APPLICANT VERIFICATION/AUTHORIZATION

I certify that all statements given in this Application are true and correct and that ICC, its examination boards, and/or its agents are hereby authorized to verify the information in this application and to make inquiries necessary to ascertain the accuracy of this application and my eligibility for certification. I also authorize any organization and individual listed to validate this application information. I understand that any misrepresentation of the information I have provided will result in the rejection of this application and resulting examination. I also certify that I have read the ICC Applicant Handbook and understand and agree to the policies set forth therein. I understand that I must comply with the ICC code of conduct and the renewal policy to maintain my certification. I release from all liabilities the ICC, its examination boards, and its agents, and I am aware that any certification I may receive from the International Certification Commission (ICC) will not constitute and shall not construed as a license.

NON-DISCLOSURE AGREEMENT AND GENERAL TERMS OF USE

This examination is confidential and proprietary. It is made available to you, the examinee, solely for the purpose of assessing your competency in the area referenced in the title of this examination. You are expressly prohibited from recording, copying, disclosing, publishing, reproducing, or transmitting this examination, in whole or in part, in any form or by any means, verbal or written, electronic or mechanical, for any purpose, without the prior express written permission of the International Certification Commission (ICC). Non-compliance may lead to the revocation of your certification.

Signature of Applicant ___________________________ Date ___________________________

REVISED IH13/10 PTC13149
AAMI Members
Save 20% on ICC Certification

Enhance your marketability and move your career forward. Available ICC certifications:

- Biomedical Equipment Technician (CBET)
- Radiology Equipment Specialist (CRES)
- Laboratory Equipment Specialist (CLES)

Certification Exam Rates:
AAMI Members: $300 (20% savings!)
Non-Members: $375

Certification Renewal Rates:
AAMI Members: $72 (20% savings!)
Non-Members: $90

Next Exam: May 3–10, 2014
Application Deadline: March 22, 2014

Learn more about ICC Certifications at www.aami.org/certification.
Take Advantage Of Your AAMI Membership Benefits:

• Opportunities to earn certification renewal points
• Free resume posting in the AAMI Career Center
• Networking through AAMI E-Forums
• Product discounts—including study guides
• AAMI publications and news
• And more!

Not a member?
Visit www.aami.org/membership.