

John Patrick University
of
Health and Applied Sciences

Upon recommendation of the Faculty,

John Patrick University of Health and Applied Sciences
has conferred upon

SHANE MCCOTTER

the degree of

MASTER OF SCIENCE IN MEDICAL PHYSICS

Who has honorably fulfilled all the requirements prescribed
by the University for that degree

at South Bend, Indiana this twenty-first day of December in
the year of our Lord two thousand and twenty



Burt Murphy
President

John Patrick University of Health and Applied Sciences

100 E. Wayne Street, Suite 140, South Bend, IN 46601

PH 574.232.2408 FAX 574.232.2200

SHANE McCOTTER

Date of Birth 03/16/1989
Social Security XXX-XX-9472

Student ID Number 232109

Enrollment Date 05/06/2019
Program MS MEDICAL PHYSICS

Summer 2019

COURSE NO.	COURSE TITLE	GRADE	CRED	QPts
BIOL530	HUMAN ANATOMY & PHYSIOLOGY	B	4	12
MP590	MEDICAL & PROFESSIONAL ETHICS	A	1	4
MP502	RADIATION BIOLOGY	B	3	9

Term: EHRHS	8	QPts	25	GPA	3.13
Cumulative: EHRHS	8	QPts	25	GPA	3.13
Cumulative Program: EHRHS	8	QPts	25	GPA	3.13
					3

Fall 2019

COURSE NO.	COURSE TITLE	GRADE	CRED	QPts
MP503	DIAGNOSTIC RADIOLOGY	A	3	12
MP505	RADIATION ONCOLOGY I	B	3	9
MP599 S9	SEMINARS SESSION 9	A	1	4

Term: EHRHS	7	QPts	25	GPA	3.57
Cumulative: EHRHS	15	QPts	50	GPA	3.33
Cumulative Program: EHRHS	15	QPts	50	GPA	3.33

Spring 2020

COURSE NO.	COURSE TITLE	GRADE	CRED	QPts
MP603	ADVANCED DIAGNOSTIC RADIOLOGY	A	2	8
MP520	COMPUTER SYSTEMS IN MEDICINE	A	2	8
MP506	RADIATION ONCOLOGY II	A	3	12

Term: EHRHS	7	QPts	28	GPA	4.00
Cumulative: EHRHS	22	QPts	78	GPA	3.55
Cumulative Program: EHRHS	22	QPts	78	GPA	3.55

***** CONTINUED ON NEXT PAGE *****



Elizabeth M Datema
Office of the Registrar



Brent D. Murphy, MS, DABR
President

John Patrick University of Health and Applied Sciences

100 E. Wayne Street, Suite 140, South Bend, IN 46601

PH 574.232.2408 FAX 574.232.2200

SHANE McCOTTER

Date of Birth 03/16/1989

Social Security XXX-XX-9472

Student ID Number 232109

Enrollment Date 05/06/2019

Program MS MEDICAL PHYSICS

Summer 2020

COURSE NO.	COURSE TITLE	GRADE	CRED	QPts
MHP510	HEALTH PHYSICS/RADIATION SAFETY	A	3	12
MP504	NUCLEAR MEDICINE	A	3	12
STAT501	STATISTICAL METHODS	A	3	12

Term: EHRS	9	QPts	36	GPA	4.00
Cumulative: EHRS	31	QPts	114	GPA	3.68
Cumulative Program: EHRS	31	QPts	114	GPA	3.68

Fall 2020

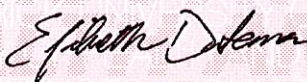
COURSE NO.	COURSE TITLE	GRADE	CRED	QPts
MP699	CLINICAL INTERNSHIP	P	4	16
MP613	NUCLEAR ONCOLOGY	A	3	12
MP501	RADIATION DOSIMETRY	A	4	16
MP508	RADIOLOGICAL INSTRUMENTATION	A	2	8
MHP601	SHIELDING DESIGN	A	2	8

Term: EHRS	15	QPts	60	GPA	4.00
Cumulative: EHRS	46	QPts	174	GPA	3.78
Cumulative Program: EHRS	46	QPts	174	GPA	3.78

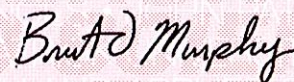
***** END OF RECORD *****

DEGREE AWARDED

12/21/2020 Master of Science in Medical Physics



Elizabeth M Datema
Office of the Registrar



Brent D. Murphy, MS, DABR
President

John Patrick University of Health and Applied Sciences
100 E. Wayne Street, Ste. 140, South Bend, IN 46601
PH 574.232.2408 FAX 574.232.2200

KEY TO TRANSCRIPT OF ACADEMIC RECORDS

www.jpu.edu info@jpu.edu

Note: The following explanation reflects information found on the John Patrick University of Health and Applied Sciences (JPU) Official Transcript produced from the Student Information System implemented June 2011. Prior to August 5, 2019, JPU was doing business as Radiological Technologies University VT.

The information contained within this official transcript is protected by the Family Educational Rights and Privacy Act of 1974 and explained in the JPU Academic Catalog.

I. Grade and Credit Point System

The following grades are considered in computing semester or cumulative grade averages. Course hours with a grade of "F" are counted when computing grade point averages but do not count toward the earned hours required for degrees.

Graduate Courses

A (4.0 Pts) Excellent	F (0.0 Pts) Failing
B (3.0 Pts) Good	P (4.0 Pts) Passed (Pass/Fail Option)
C (0.0 Pts) Unsatisfactory	WF (0.0 Pts) Withdrawn - Failing
D (0.0 Pts) Unsatisfactory	

Undergraduate Courses

A (4.0 Pts) Excellent	F (0.0 Pts) Failing
Good	P (4.0 Pts) Passed (Pass/Fail Option)
C (2.0 Pts) Satisfactory	WF (0.0 Pts) Withdrawn - Failing
D (0 Pts) Unsatisfactory	

Repeated Courses

Repeated courses are counted in the John Patrick University grade point average and may also be counted in the student's primary program GPA (Student Program GPA), depending on the policies of the student's program. The first attempt to complete a course is listed as attempted credits not earned.

The following grades are not considered in computing semester or cumulative grade point averages:

AU	Audit - No Credit
I	Incomplete/Pending
T	Denotes credits transferred from another Institution
W	Withdrawn
R	Repeated Course

Abbreviations and Symbols

EHRs	Credit hours earned
QPts	Quality Points Earned
GPA	Grade point average (computed by dividing QPts by EHRs)

Credit Types

Regular Credit - All John Patrick University credit is reported in terms of semester credit hours.

Academic Terms

John Patrick University of Health and Applied Sciences normally has the following terms each academic year:

Fall Semester	(15 weeks)	Usually begins early September
Spring Semester	(15 weeks)	Usually begins early January
Summer Semester	(15 weeks)	Usually begins early May

II. Course Identification System

Refer to the John Patrick University of Health and Applied Sciences Academic Catalog for full Course Numbering System Descriptions.

100-299	Associate level
300-499	Bachelor level
500-799	Graduate level

III. Record Format

The "Official Transcript" standard format lists course history, grade and GPA information in chronological order sorted by the student's career level. The "Official Transcript with Enrollment" provides the same information as the standard transcript but also includes all courses in which a student is currently enrolled or registered. "Official Transcript" or "Official Transcript with Enrollment" (Without career level designation) indicates that the document contains all work completed at John Patrick University.

The **JPU GPA** reflects the students GPA according to standard university wide rules. A Semester JPU GPA and a cumulative to date JPU GPA are calculated at the end of each semester. The overall JPU GPA summary statistics are reflected at the end of each student career level.

The **Student Program GPA** is calculated according to the rules determined by the student's primary academic program at the time of printing. The cumulative Student Program GPA summary statistics are reflected at the end of each student career level and are based on the student's last active primary program at that level.

IV. Transfer, Test and Special Credit

Courses accepted in transfer from other institutions are listed under a Transfer Credit heading. Generally, a grade of "T" (transfer grade) is assigned and course numbers, titles and credit hours assigned reflect JPU Equivalents. Transfer hours with a grade of "T" are not reflected in the cumulative grade averages; however, the hours are included in the "Hrs Earned" Field.

V. Accreditation

This Institution is authorized by the Indiana Commission for Higher Education/Board for Proprietary Education, 101 West Ohio Street, Suite 300 Indianapolis, Indiana 46204-4206.

This Institution is accredited by the Accrediting Commission of Career Schools and Colleges (ACCSC), 2101 Wilson Boulevard, Suite 302 Arlington, VA 22201. Phone (703) 247-4212. Website: www.accsc.org. ACCSC is recognized by the U.S. Department of Education.

This Institution is accredited by the Joint Review Committee on Education in Radiologic Technology, 20 North Wacker Drive, Suite 2850 Chicago, Illinois 60606-3182. Phone (312) 704-5300. Email: mail@jrccert.org

VI. Validation

A transcript issued by John Patrick University is official when it displays a signature and is printed on John Patrick University paper. The official University transcript is printed on SCRIP-SAFE Security paper and does not require a raised seal.

VII. Registrar Contact

Questions about the content of this record should be referred to the Office of the Registrar at 574-232-2408. The Key to Transcript the Transcript of Academic Records was last revised September 14, 2020.

TO TEST FOR AUTHENTICITY: Translucent globe icons **MUST** be visible from both sides when held toward a light source. The face of this transcript is printed on red SCRIP-SAFE[®] paper with the name of the institution appearing in white type over the face of the entire document.

JOHN PATRICK UNIVERSITY OF HEALTH AND APPLIED SCIENCES • JOHN PATRICK UNIVERSITY OF HEALTH AND APPLIED SCIENCES • JOHN PATRICK UNIVERSITY OF HEALTH AND APPLIED SCIENCES • JOHN PATRICK UNIVERSITY OF HEALTH AND APPLIED SCIENCES • JOHN PATRICK UNIVERSITY OF HEALTH AND APPLIED SCIENCES • JOHN PATRICK UNIVERSITY OF HEALTH AND APPLIED SCIENCES • JOHN PATRICK UNIVERSITY OF HEALTH AND APPLIED SCIENCES • JOHN PATRICK UNIVERSITY OF HEALTH AND APPLIED SCIENCES • JOHN PATRICK UNIVERSITY OF HEALTH AND APPLIED SCIENCES • JOHN PATRICK UNIVERSITY OF HEALTH AND APPLIED SCIENCES

ADDITIONAL TESTS: The institutional name and the word COPY appear on alternate rows as a latent image. When this paper is touched by fresh liquid bleach, an authentic document will stain brown. A black and white or color copy of this document is not an original and should not be accepted as an official institutional document. This document cannot be released to a third party without the written consent of the student. This is in accordance with the Family Educational Rights and Privacy Act of 1974. If you have any questions about this document, please contact our office. **ALTERATION OF THIS DOCUMENT MAY BE A CRIMINAL OFFENSE!**



Radiation Physics
CONSULTANTS

April 12, 2023

ATTESTATION OF TRAINING

The following is the radiographic equipment Shane McCotter has been properly trained on to perform Physics Testing. I, Steve Nicholas, verify the above person is competent to assess the following items marked below. If you have any questions, please contact me at steve@rpcphysics.com.

- | | |
|--|---|
| <input checked="" type="checkbox"/> Radiographic Room | <input checked="" type="checkbox"/> CT Unit (ACR) |
| <input checked="" type="checkbox"/> Digital Radiography | <input checked="" type="checkbox"/> CT Unit (Non ACR) |
| <input checked="" type="checkbox"/> CR Reader | <input checked="" type="checkbox"/> Gamma Camera/SPECT |
| <input checked="" type="checkbox"/> Portable Radiographic Unit | <input checked="" type="checkbox"/> MRI Unit (ACR) |
| <input checked="" type="checkbox"/> C-Arm | <input checked="" type="checkbox"/> MRI Unit (Non ACR) |
| <input checked="" type="checkbox"/> R&F Room | <input checked="" type="checkbox"/> Mammo Unit |
| <input checked="" type="checkbox"/> Specials/Cath/EP Lab | <input checked="" type="checkbox"/> Tomo/DBT Mammo Unit |
| <input checked="" type="checkbox"/> O-Arm | <input checked="" type="checkbox"/> Stereotactic Mammo Unit |
| <input checked="" type="checkbox"/> Dental Bitewing | <input checked="" type="checkbox"/> EOS Body Scanner |
| <input checked="" type="checkbox"/> Dental Panalipse | <input checked="" type="checkbox"/> Survey Meter |
| <input checked="" type="checkbox"/> Dental Conebeam CT | <input checked="" type="checkbox"/> Leak Test |
| <input checked="" type="checkbox"/> Dexa/Bone Densitometer | <input checked="" type="checkbox"/> Dose Calibrator Testing |

Sincerely,

Steven T. Nicholas, M.S., DABMP
President, RPC





Radiation Physics
CONSULTANTS

December 9, 2021

COMPETENCY ATTESTATION

I, Steve Nicholas, verify Shane McCotter is trained and competent to perform the follow services. If you have any questions, please contact me at steve@rpcphysics.com.

A. SERVICES TO THE X-RAY DEPARTMENT

1. Radiographic equipment:
 - a) Source-to-image (SID) accuracy, beam quality (HVL) analysis, and evaluation of spatial resolution
 - b) Radiation output (mR/mAs) verses kVp and distance (typical patient exposures)
 - c) Phototimer operation analysis
 - d) Tomographic performance analysis with respect to beam path and exposure uniformity, depth indicator accuracy, cut thickness, and resolution
 - e) Mechanical performance and electrical cable integrity inspection
 - f) Light field to x-ray beam alignment
 - g) Proper operation of interlocks and exposure switches
 - h) Accuracy of manual and automatic collimator operation
 - i) X-ray generator analysis with respect to kVp and timer accuracy, mA linearity, exposure reproducibility and assessment of radiation, and kV waveforms (non-invasive testing)

2. Computed Radiography equipment:
 - a) Physical inspection/inventory of cassettes
 - b) Imaging plate uniformity and dark noise
 - c) Signal response: linearity and slope; calibration and beam quality
 - d) Laser beam function
 - e) High-contrast resolution
 - f) Noise/low-contrast response
 - g) Aspect ratio and accuracy of distance measurements
 - h) Erasure thoroughness
 - i) Throughput

3. Digital Radiography equipment:
 - a) Uniformity and artifact evaluation
 - b) Signal response: linearity and slope; calibration and beam quality
 - c) High-contrast resolution
 - d) Noise/low-contrast response
 - e) Aspect ratio and accuracy of distance measurements
 - f) Anti-aliasing
 - g) Positioning and collimation errors
 - h) Monitor evaluation

4. Fluoroscopic equipment:
 - a) Verify compliance with state and federal regulations for fluoroscopic exposure rate conditions
 - b) Proper operation of interlocks, exposure switches, timers, table side shields, and tower aprons
 - c) Fluoroscopic imaging system resolution and contrast analysis
 - d) Fluoroscopic kVp accuracy, radiation and kV waveforms assessment (non-invasive testing), and fluoroscopic beam quality
 - e) Verify air kerma and/or DAP indicator accuracy
 - f) Spot film x-ray generator analysis with respect to kVp and timer accuracy, mA linearity, exposure reproducibility and assessment of radiation and kV waveforms (non-invasive testing)
 - g) Mechanical performance and electrical cable integrity inspection

5. Evaluate the monitor image and the hardcopy image

B. SERVICES TO THE CT SCANNER

1. Evaluate the CT x-ray equipment including performance evaluation and compliance testing as follows:
 - a) Beam alignment and alignment artifacts
 - b) Beam width (slice thickness) and scan increment accuracy
 - c) Measurement of uniformity throughout the image plane
 - d) Measurement of high contrast resolution of system
 - e) Determination of low contrast resolution (sensitivity) of system
2. Perform dosimetry measurements with respect to the following:
 - a) Location in phantom
 - b) kVp
 - c) mA
 - d) Scan time; scan diameter
3. Quality assurance test phantoms and various types of dosimetry equipment will be used to make all the measurements specified
4. Evaluate the monitor image and the hardcopy image

C. OTHER SERVICES

1. *Shielding*: Individual can help determine the necessary shielding evaluations for new equipment or modified exam rooms to ensure protection from scattered radiation. RPC can:
 - a. Create a concise and detailed report indicating the type and amount of required shielding materials for each wall, ceiling, and floor
 - b. Provide all necessary documentation for submitting the shielding report to state agencies for review
 - c. Communicate directly with state inspectors concerning discrepancies or questions
2. *Annual Audit*: Individual can perform an audit for the facility's Radiation Safety Officer. This is a thorough critique and analysis of the entire Radiology Quality Assurance Program which includes:
 - a. Review of the QA Manual to ensure all QC tests are performed properly, at the correct intervals, and documentation is maintained
 - b. Provide a comprehensive report specifying areas of deficiency and recommending corrections
 - c. Assist in modifying or creating site-specific policies and procedures

Sincerely,



Steven T. Nicholas, M.S., DABMP
President, RPC



Radiation Physics
CONSULTANTS

January 1, 2019

RSO QUALIFICATION LETTER

This letter is in reference to the Radiation Safety Officer qualification requirements set forth by the Minnesota Department of Health Ionizing Radiation Rules:

4732.0500 REGISTRANT'S SAFETY RESPONSIBILITIES.

Subp. 2. Designation of radiation safety officer.

B. The individual designated as a radiation safety officer must be either a licensed practitioner of the healing arts; or an individual who has completed training in the following items:

- (1) fundamentals of radiation safety;
- (2) familiarization with facility's radiation-producing equipment;
- (3) film processing, if applicable;
- (4) quality assurance program;
- (5) audits of the quality assurance program;
- (6) emergency procedures for radiation-producing equipment failures;
- (7) proper use of personal dosimetry, if applicable;
- (8) requirements of pertinent state rules; and
- (9) the registrant's written operating and emergency procedures.

Shane McCotter, M.S., employed with Radiation Physics Consultants, Inc., has met the above training requirements in addition to gaining several years of clinical medical physics experience through physics testing as well as assisting in performing Annual RSO Audits. Therefore, I attest that Shane McCotter has achieved a level of radiation safety knowledge sufficient to function independently as a Radiation Safety Officer for a facility licensed under MN Rules, Chapter 4732 - Ionizing Radiation.

Sincerely,

A handwritten signature in black ink, appearing to read 'D. Eastman', written over a light blue horizontal line.

David J. Eastman, M.E.H.S.
Medical Health Physicist & RSO under License Number 1048





Radiation Physics
CONSULTANTS

January 9, 2019

LEAK TEST VERIFICATION OF TRAINING

Shane McCotter has been properly trained on how to perform Physics Testing on survey meters as well as analyze and perform sealed source leak tests in accordance with the Minnesota Department of Health Diagnostic & Therapeutic Medical Procedures for Radioactive Materials Regulatory Guide.

Therefore, as the trainer, I attest that Shane McCotter has satisfactorily achieved a level of competency to function independently as one that can perform annual survey meter calibrations as well as analyze or perform sealed source leak tests.

Sincerely,

A handwritten signature in black ink, appearing to read 'D. Eastman', written over a light gray circular graphic element.

David J. Eastman, M.E.H.S.
Medical Health Physicist & RSO

*David J. Eastman, is listed on RAM License 1048 as the Radiation Safety Officer as well as being listed in Section 13 as one authorized to perform leak tests, perform sample analysis and instrument calibrations.

Annual MRSO Training Preceptorship

MRSO Candidate: **Shane McCotter, M.S., Medical Physicist**

Start Date: March 16, 2021

Items Covered During Annual MRSO Preceptorship

This form is documentation to meet the NRC required one year of full-time radiation safety experience as required by 35.50(b)(1)(ii).

Nuclear Medicine Quality Control/Training/Audits <small>[Note: 'NA' indicates the section doesn't apply for MRSO required training.]</small>	Instructed	Performed Under Supervision	Performed on Own
Dose Calibrator QC			
Daily Constancy Check	11/10/22	NA	NA
Linearity	11/10/22	NA	NA
Accuracy	11/10/22	1/20/23	NA
Geometry	11/10/22	NA	NA
Semi-Annual Sealed Source Inventory	11/10/22	NA	NA
Semi-Annual Sealed Source Leak Tests	2021 & 11/10/22	2021	7/26/21
Area Surveys	11/10/22 & 4/12/23	NA	NA
Wipe Tests	11/10/22	1/20/23	NA
Incoming & Outgoing DOT Surveys & Wipes	11/10/22	NA	NA
Waste Disposition Surveys	11/10/22	NA	NA
Thyroid Uptake Probe			
Constancy Check	11/10/22	NA	NA
Chi-Square	11/10/22	NA	NA
MDA	11/10/22	NA	NA
Well Counter			
Efficiency	11/10/22	NA	NA
Constancy Check	11/10/22	NA	NA
Chi-Square	11/10/22	NA	NA
MDA	11/10/22	NA	NA
Neoprobe	11/10/22	1/7/22	1/27/22
Scanner QC (for Gamma Camera, SPECT CT & PET)	4/12/23	NA	3/6/23
Therapy Administration Review (I-131 & Ra-223)	4/12/23	NA	NA
ALARA Audit	1/20/23 & 1/23/23	1/27/23	NA
Conducting Annual Nuclear Medicine Technologist Training	9/7/22	12/13/22	NA
Radiation Badge Reports			
ALARA I & II Limits	12/13/22	NA	NA
Annual Form 5's	12/13/22	NA	NA
Len's Dose Limits (Regulation vs Recommendation)	12/13/22	NA	NA
Pregnancy Limits	12/13/22	NA	NA
Survey Meter Calibrations	X	X	X
Physics Testing	11/10/22	1/7/22	4/28/22

Nuclear Medicine Quality Control/Training/Audits [Note: 'NA' indicates the section doesn't apply for MRSO required training.]		Instructed	Performed Under Supervision	Performed on Own
Radioactive Materials (RAM) license				
Amendments (New AU or New Use Area)		1/25/23	NA	NA
Decommissioning Use Areas		11/10/22	NA	NA
RAM License Renewal Process		1/25/23	NA	NA
Notifications to the State		4/12/23	NA	NA
MRSO Training Situations & Presentations				
RAM Security		11/21/22	NA	NA
RAM Spills & Clean-up		10/27/22	NA	NA
Radiation Badges		10/27/22	NA	NA
Nuclear Medicine Radiation Shielding		3/17/23	NA	NA
Basic Nuclear Medicine Radiation Safety Training		11/21/22	NA	NA
DOT Training		4/3/23	NA	NA
Y-90 Radiation Safety & Spills		5/19/21 & 3/17/23	NA	NA
I-125 Breast Seed Localization Procedures		3/27/23	NA	NA
I-131 Radiation Safety		12/1/22	NA	NA
Review of atypical MRSO Situations/How to Respond				
Pregnant Patient Imaged		9/7/22	NA	NA
Fetal Dose Calculations		NA	10/7/22	10/7/22
Patient with many x-ray exams		9/7/22	NA	NA
Working Around the Injected Patient (CT or Ultrasound)		9/7/22	NA	NA
Patient Mis-administrations (Nuc. Med. vs Therapy)		9/7/22	NA	NA
RAM Sink Disposal - Is it allowed?		9/7/22	NA	NA
Radiation Safety for In-House Patient		12/13/22	NA	NA
Funeral Home Radiation Safety Practices		12/13/22	NA	NA
MRSO to observe Nuclear Medicine Technologist check-in package		3/31/23	NA	NA
Review of Radiactive Material Regulations: Discharge Instructions, Breastfeeding Instructions, Postings, etc.				
FDA		4/12/23	NA	NA
MDH		4/12/23	NA	NA
Review of MDH RAM Reg. Guide for Diagnostic & Therapeutic Materials for Medical Procedures		4/12/23	NA	5/25/23
NDDEQ		4/12/23	NA	NA
WI DHS		4/12/23	NA	NA
NHPP (for VA sites)		4/12/23	NA	NA
Attend Site Radiation Safety Rounds w/MRSO (at least 3 diff. times)		3/16/21	1/20/23	1/23/23
Radiation Safety Committee (RSC) Meeting				
How often are they performed?		11/30/22	NA	NA
Preparing an RSC Agenda		11/30/22	NA	NA
Attending an RSC Meeting		3/16/21, 9/7/22, 12/9/22, 12/13/22	NA	NA


The signature below is for a Preceptor Medical Radiation Safety Officer's (MRSO) acknowledgment that the documented training above for the proposed MRSO (stated above) has achieved a level of radiation safety knowledge sufficient to function independently as an MRSO for a medical use licensee.

David J. Eastman

Medical Radiation Safety Officer's Printed Name

Date: March 16, 2021

Document Initial Date of Training


Authorized User's Signature

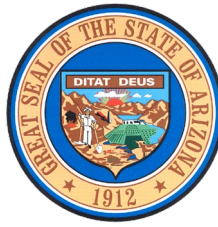
Date: May 30, 2023

Document Final Date of Training

Structured Educational Program for Proposed RSO

a. 200 hours of Classroom and Laboratory Training

Description of Training	Location of Training	Lecture Time	Exam Time	Lab Time	Total Clock Hours	Dates of Training
Radiation Physics & Instrumentation	Radiation Instrumentation Course from John Patrick University	11	4	1	16.0	9/2020 - 12/2020
	Essentia Health Miller Dwan Medical Center, Duluth, MN Survey Meter Calibrations (2)	NA	NA	1	1.0	8/3/2021
	Essentia Health Miller Dwan Medical Center, Duluth, MN Survey Meter Calibrations (6)	NA	NA	2	2.0	5/20/2021
	Essentia Health Miller Dwan Medical Center, Duluth, MN Sealed Source Leak Tests	0.5	NA	1	1.5	7/16/2021
	Essentia Health Hospital Area Surveys	0.5	NA	0.25	0.75	11/10/2022
	Hands-On Nuclear Medicine Physics Workshop, Iowa City, IA	8	NA	5.75	13.75	8/27 - 28/2022
	Annual Physics Testing of Eight Nuc. Med. SPECT Cameras	NA	NA	18	18.0	Mar - Oct 2022
	Annual Physics Testing of Twelve Nuc. Med. SPECT Cameras	NA	NA	26	26.0	Jan - July 2023
	Diagnostic Radiology Course, Production of X-Rays, X-Ray Generators, Basic Interaction between X-Rays & Matter, Attenuation, Filters, Grids, and Fluoroscopic Imaging by Jerrold Bushberg (John Patrick University)	11.0	4.0	1.0	16.0	9/2019 - 12/2019
	Nuclear Medicine Course from John Patrick University	11.0	4.0	1.0	16.0	5/2020 - 8/2020
Radiation Protection	Health Physics / Radiation Safety Course from John Patrick University	11.0	4.0	1.0	16.0	5/2020 - 8/2020
	Shielding Design Course from John Patrick University	11.0	2.0	1.0	14.0	9/2020 - 12/2020
	CardinalHealth Hazardous Materials Transportation Safety (DOT) Regulatory Compliance Training- Powerpoint Training	2.0	0.5	NA	2.5	4/4/2023
	Attend Four Radiation Safety Committee Meetings	NA	NA	4.0	4.0	3/16/21, 9/7/22, 12/9/22, 12/13/22
	Review FDA and MDH Regulations on Nuclear Medicine (10 CFR 35/10 CFR 20)	4.0	NA	NA	4.0	4/12/2023
	Training with David Eastman on RAM Security, Spills, Shielding, procedures	3.0	NA	NA	3.0	10/27/22, 11/21/22, 3/17/23, 11/21/22, 3/17/23, 3/27/23, 12/1/22
Mathematics pertaining to the use and measurement of radioactivity	Statistical Methods Course from John Patrick University	11.0	4.0	1.0	16.0	5/2020 - 8/2020
	PET/CT Shielding Design Calculation for Altru Hospital in Grand Forks, ND	NA	NA	20.0	29.5	11/28/2022
	MTMI Shielding Webinar	4.5	NA	NA	4.5	3/6 - 8/2018
Radiation Biology	Radiation Biology Course from John Patrick University	11.0	4.0	1.0	16.0	5/2019 - 8/2019
		NA	NA	NA	0.0	
Radiation dosimetry	Fluoro Dose Estimations for St. Luke's Hospital	NA	NA	3.0	3.0	4/6/2021
	Fluoro Dose Estimations for St. Luke's Hospital	NA	NA	3.0	3.0	7/13/2022
	Radiation Dosimetry Course from John Patrick University	11.0	4.0	1.0	16.0	9/2020 - 12/2020
		NA	NA	NA	0.0	
		NA	NA	NA	0.0	
		NA	NA	NA	0.0	
		NA	NA	NA	0.0	
Total Hours:		110.50	30.50	92.00	242.50	



ARIZONA DEPARTMENT OF HEALTH SERVICES
BUREAU OF RADIATION CONTROL
4814 South 40th Street, Phoenix, AZ 85040

CERTIFICATE OF APPROVAL

This is to certify that

Shane McCotter

Satisfies the definition of a Qualified Expert
And is approved to perform the following services:



Diagnostic X-Ray
Therapeutic X-Ray
Health Physics
Mammography (MQSA)

Department Approval Number **QE-3485**

Based on information submitted to the Department, the above-mentioned individual satisfies the definition of a 'Qualified Expert' in accordance with A.A.C. R9-7-102. As long as this individual remains compliant with Arizona regulations, this individual is approved to perform the above listed services which are required to be performed by a Qualified Expert. This approval shall be valid until the expiration date on this certificate, or if the approval status is revoked or amended by the Department. Upon request, a copy of this certificate must be made available to all persons this individual provides any of the above services to.

Shawn Rios

Shawn Rios, Program Manager

Brian Goretzki, Bureau Chief

ISSUE DATE: March 1, 2023
EXPIRATION DATE: December 31, 2027

MTMI

Medical Technology
Management Institute

THIS CERTIFIES THAT:

SHANE MCCOTTER

HAS SUCCESSFULLY COMPLETED THE PROGRAM ENTITLED:
DIAGNOSTIC AND NUCLEAR MEDICINE RADIATION SHIELDING

March 6, 2018

Approval has been received from CAMPEP for up to 1.5 hours of Medical Physics Continuing Education Credits (MPCEC'S) Credits to be awarded by CAMPEP.

This activity is approved by ASRT for continuing education credit for Radiologic Technologist recognized by the ARRT and various states.

Credit Hours: 1.75 Category A ASRT# WID0038025 (03/09/2018)



MTMI, Director

MTMI

W140 N8917 Lilly Road

Menomonee Falls, WI 53051

A continuing education division of Herzing University

MTMI

Medical Technology
Management Institute

THIS CERTIFIES THAT:

SHANE MCCOTTER

HAS SUCCESSFULLY COMPLETED THE PROGRAM ENTITLED:
DIAGNOSTIC AND NUCLEAR MEDICINE RADIATION SHIELDING

March 7, 2018

Approval has been received from CAMPEP for up to 1.5 hours of Medical Physics Continuing Education Credits (MPCEC'S) Credits to be awarded by CAMPEP.

This activity is approved by ASRT for continuing education credit for Radiologic Technologist recognized by the ARRT and various states.

Credit Hours: 1.75 Category A ASRT# WID0038024 (03/09/2018)



MTMI, Director

MTMI

W140 N8917 Lilly Road

Menomonee Falls, WI 53051

A continuing education division of Herzing University

MTMI

Medical Technology
Management Institute

THIS CERTIFIES THAT:

SHANE MCCOTTER

HAS SUCCESSFULLY COMPLETED THE PROGRAM ENTITLED:
DIAGNOSTIC AND NUCLEAR MEDICINE RADIATION SHIELDING

March 8, 2018

Approval has been received from CAMPEP for up to 1.5 hours of Medical Physics Continuing Education Credits (MPCEC'S) Credits to be awarded by CAMPEP.

This activity is approved by ASRT for continuing education credit for Radiologic Technologist recognized by the ARRT and various states.

Credit Hours: 1.75 Category A ASRT# WID0038023 (03/09/2018)



MTMI, Director

MTMI

W140 N8917 Lilly Road

Menomonee Falls, WI 53051

A continuing education division of Herzing University

MTMI

Medical Technology
Management Institute

THIS CERTIFIES THAT:

SHANE MCCOTTER

HAS SUCCESSFULLY COMPLETED THE PROGRAM ENTITLED:

HANDS-ON FLUOROSCOPY TESTING WORKSHOP

Feb 24 - 25, 2018 | Wichita, KS

This activity provides 16.19 hours of continuing education on testing fluoroscopy systems.
Approval has been received from CAMPEP for up to 16.19 hours of Medical Physics
Continuing Education Credits (MPCEC'S)

This program has been approved for 14.75 hours of Category A continuing education
credit for Radiologic Technologists recognized by the ARRT and various states.
ASRT# WID0028009 (02/26/2018)



MTMI, Director

MTMI

W140 N8917 Lilly Road

Menomonee Falls, WI 53051

A continuing education division of Herzing University



THIS CERTIFIES THAT:

SHANE MCCOTTER

HAS SUCCESSFULLY COMPLETED THE PROGRAM ENTITLED:

DENTAL CONE BEAM CT FOR PHYSICISTS

February 20, 2019

Approval has been received from CAMPEP for up to 2 hours of Medical Physics Continuing Education Credits (MPCEC'S) Credits to be awarded by CAMPEP.

This activity is approved by ASRT for continuing education credit for Radiologic Technologist recognized by the ARRT and various states.

Credit Hours: 2.25 Category A ASRT#: WIZ0138114 (11/01/2019)

Ernesto A. Ardenas, Ph.D.

MTMI, President

MTMI
10361 Innovation Drive, STE #400
Milwaukee, WI 53226