

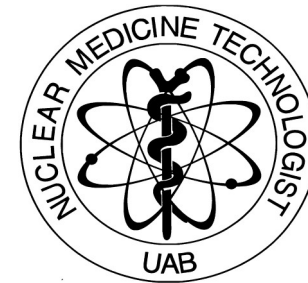
Nuclear Medicine Technology Certification Exam Review

Sponsored

Nuclear Medicine Technology Program

School of Health Professions

University of Alabama at Birmingham



Monday, August 10, 2009

To

Saturday, August 15, 2009

*Learning Resources Center
1714 9th Avenue South, Room 102
Birmingham, Alabama 35294-1212*

Essential functions, which are fundamental tasks that must be performed to successfully complete these seminars, have been outlined and are available upon request.

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Nuclear Medicine Technology Certification Exam Review

Registration Form

Please complete and return with your check to:

Continuing Education Seminars
Nuclear Medicine Technology Program
UAB School of Health Professions
SHPB 447, 1530 3rd Ave South
Birmingham, Alabama 35294-1212

Registration Deadline: July 27, 2009

Name: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Home Phone: () _____

Work Phone: () _____

Fax Number: () _____

Email: _____

Social Security* #: _____

*Required for continuing education credit.

Place a check mark next to the seminar for which you are registering:

Seminar	Registration Fee	
	Postmarked By July 10, 2009	Postmarked After July 10, 2009
Nuclear Medicine Technology		
_____ Certification Exam review (6 days)	\$1,500	\$1,750
_____ Instrumentation (2 days)	\$ 600	\$ 750
_____ Radiation Protection (2 days)	\$ 600	\$ 750
_____ Radiopharmacy (2 days)	\$ 600	\$ 750

Please make check payable to UAB School of Health Professions

FACULTY



Norman E. Bolus, MPH, CNMT
Assistant Professor, bolusn@uab.edu
Program Director Nuclear Medicine Technology Program
B.S. (Biology & Chemistry), University of Alabama at Birmingham B.S. (Nuclear Medicine Technology), University of Alabama at Birmingham M.P.H. (Occupational Health & Safety), University of Alabama at Birmingham. Area of instruction includes Introduction to Clinical Nuclear Medicine, Procedures, Imaging & External Counting, Radiation Biology and Laboratory Instruction in: Radiation Protection, Radiation Physics, Instrumentation, and Radiopharmacy.



Bradley Newcomer, PhD, ARMRT
Associate Professor, newcomerb@uab.edu
Doctor of Philosophy in Biomedical Sciences, Wright State University, Dayton, Ohio and Master of Sciences in Physics Wright State University, Dayton, Ohio. Area of instruction includes Introductory Physics, Medical Imaging Physics and Instrumentation, Radiation Physics, Human Pathophysiology, Computers and Instrumentation in Nuclear Medicine, Research Methods and Information Critiquing, Research Ethics, Magnetic Resonance Imaging Physics, Magnetic Resonance Imaging Scanning and Optimization, Leadership Principles.



Remo George, MS, CNMT
Assistant Professor, remo@uab.edu
B.S. in Biology and Medical Radioisotope Techniques from Bhabha Atomic Research Center, University of Bombay, India; and a M.S. in Biophysics from Mahatma Gandhi University, India. He also has a NMTCB certification in Nuclear Medicine Technology (CNMT), and is a U.S. Nuclear Regulatory Commission 10CFR35.100 & 10CFR35.200 Medical Radiation Safety Officer. Area of instruction includes Medical Nuclear Instrumentation and Computer applications, and Regulatory issues in Nuclear Medicine.



Liliana Navarrete, MS
Assistant Professor, lalinav@uab.edu
Bachelors of Science Degree in Physics from National University of Colombia. Masters degrees in Physics from Kyushu University (Japan) and The University of Alabama. Area of instruction includes Physics for Technologists and Instrumentation.



Amy Glass, CNMT
Teacher and Clinical Coordinator
University of Alabama at Birmingham B.S. (Biology and Chemistry), University of Alabama at Birmingham B.S. (Nuclear Medicine), currently enrolled at Harvard University ALM (Liberal Arts with a concentration in Biology). Applications of Radiation Protection and Radiation Biology, Instrumentation Lab, Pathophysiology, Nuclear Medicine Procedures I and II, Introduction to Clinical Nuclear Medicine, Patient Care, Clinical Practice I, II, and III, Correlative Imaging Capstone Course.

Nuclear Medicine Technology Certification Exam Review

This Lecture formatted course will present a review of concepts needed to successfully complete certification examinations in Nuclear Medicine Technology. It is particularly designed for on-the-job trained technologists who may be eligible to sit for the Nuclear Medicine Technology Certification Board (NMTCB) exam if they have met certain educational and clinical experience requirements and have completed a minimum of 15 contact hours of approved coursework in each of three areas: nuclear medicine instrumentation, radiation safety, and radiopharmacy. This course will satisfy the NMTCB coursework eligibility requirement. The NMTCB does not endorse any particular courses as preparation for its certification examination.

Upon completion of this course, the participant will be able to:

1. Summarize important concepts in the areas of instrumentation, radiation protection, and radiopharmacy.
2. Integrate didactic and clinical information relevant to these three areas.
3. Identify certification examination content areas of strength and weakness.
4. Identify areas and strategies for certification examination preparation.

REGISTRATION

Consult registration form for fees. A discount is applied to all registrations postmarked by July 6, 2009 Course materials and breaks are included in the registration fees.

To register, please complete the registration form, enclose a check made out to the UAB School of Health Professions, and mail to:

Continuing Education Seminars
Nuclear Medicine Technology Program
UAB School of Health Professions
SHPB 447, 1530 3rd Ave South
Birmingham, Alabama 35294-1212

REGISTRATION DEADLINE: Registrations must be received by July 27, 2009.

CANCELLATION: A \$100.00 processing fee will be retained for cancellations made prior to July 27, 2009. No refunds will be made after that date. The Nuclear Medicine Technology Program reserves the right to cancel any seminar should enrollment be insufficient. Registration fees will be fully refunded in this event.

MATERIALS: Registration includes printed materials and handouts.

CONTINUING EDUCATION CREDIT: Continuing education credit granted by the American Society of Radiologic Technologists is pending.

ADDITIONAL INFORMATION: Parking and hotel information will be supplied following receipt of the registration form. Disability assistance information, requests for accommodations, or other inquiries may be directed to Norman Bolus, Nuclear Medicine Technology Program, (205) 934-3427, fax (205) 975-7302.

**Nuclear Medicine Technology
Certification Exam Review
Instrumentation**

Dates: Monday, August 10 and Tuesday, August 11, 2009

Monday, August 10, 2009

7:30 AM	Registration
8:00	Review of Radiation Properties
9:10	Properties of Good Radiation Detectors: Efficiency, Resolving Time, & Energy Discrimination
10:10	Break
10:30	Gaseous Detectors
12:40 PM	Lunch (on your own)
1:45	Scintillation Detectors
3:55	Break
4:15	Parameters Used to Describe Scintillation Detectors
5:45	Adjourn

**Nuclear Medicine Technology
Certification Exam Review
Radiopharmacy**

Saturday, August 15, 2009

7:30 AM	Sign in
8:00	Radiopharmaceutical Quality Control
9:10	Radiochromatography
10:10	Break
10:30	Kit Requirements & Formulation Problems
11:40	Unit Dose Calculations
12:40 PM	Lunch (on your own)
1:45	Unit Dose Preparation
2:55	Review of Other Agents
3:55	Break
4:15	Radiation Safety Considerations
5:00	Regulatory Requirements
5:45	Adjourn/Course Evaluation
Faculty:	Norman E. Bolus, MPH, CNMT
CE Credit:	15 hrs (pending approval)
Fee:	Consult registration form

**Nuclear Medicine Technology
Certification Exam Review
Radiopharmacy**

Dates: Friday, August 14 and Saturday, August 15, 2009

Friday, August 14 , 2009

7:30 AM	Registration
8:00	Production of Radionuclides
9:10	Radionuclide Generators
10:10	Break
10:30	Generator Yield
11:40	Eluate Quality Control
12:40 PM	Lunch (on your own)
1:45	Preparation of Tc-99m Agents
3:55	Break
4:15	Preparation of Tc-99m Agents (cont'd)
5:45	Adjourn

**Nuclear Medicine Technology
Certification Exam Review
Instrumentation**

Tuesday, August 11, 2009

7:30 AM	Sign in
8:00	Scintillation Detector Components
10:10	Break
10:30	Scintillation Cameras
12:40 PM	Lunch (on your own)
1:45	Tomographic Image Reconstruction
2:35	Tomographic Image Reconstruction (cont'd)
3:25	Break
3:45	Fundamentals of Image Filtering
5:45	Adjourn/Course Evaluation
Faculty:	Bradley R. Newcomer, PhD. ARMRIT Liliana Navarrete, MS
CE Credit:	15 hrs (pending approval)
Fee:	Consult registration form

**Nuclear Medicine Technology
Certification Exam Review
Radiation Protection**

Dates: Wednesday, August 12 and Thursday, August 13, 2009

Wednesday, August 12 , 2009

7:30 AM	Registration
8:00	Radiation Control Agencies; Radiation Protection Units
9:10	Radiation Monitoring
10:10	Break
10:30	Posting Requirements; Radioactive Package Receipt
11:40	Occupational Exposure
12:40 PM	Lunch (on your own)
1:45	Reducing Radiation Exposure
3:55	Break
4:15	Overview of NRC Regulations
5:45	Adjourn

**Nuclear Medicine Technology
Certification Exam Review
Radiation Protection**

Thursday, August 13, 2009

7:30 AM	Sign-in
8:00	Medical Events and Excessive Radiation Exposure
9:10	Radiation Safety & Radiotherapy
10:10	Break
10:30	Radiation Biology Overview
11:40	Storage of Radioactive Materials
12:40 PM	Lunch (on your own)
1:45	Disposal of Radioactive Materials
2:55	Managing a Radioactive Spill
3:55	Break
4:15	Decontamination Procedures
5:00	Packaging Radioactive Materials
5:45	Adjourn/Course Evaluation

Faculty: Remo George, MS,CNMT
Amy B. Glass, CNMT
Norman E. Bolus, MPH,CNMT

CE Credit: 15 hrs (pending approval)

Fee: Consult registration form