

FLUOROSCOPY FOR PHYSICIAN ASSISTANTS

About this course...

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About Your Instructor

- Background as a Radiologic Technologist
 - Worked in Radiology performing various types of exams including Computed Tomography (CT), Magnetic Resonance Imaging (MRI), Mammography, and, of course, Fluoroscopy
- Have been with KPSAHS since November of 2004 as a teacher
- Took over as fluoroscopy instructor in 2008

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About This Course

- To help satisfy the requirements of the State of California for eligibility to take the Fluoroscopy exam
 - A fluoroscopy permit or fluoroscopy certification is required of anyone who exposes a patient to x-rays in fluoroscopy mode
 - The State requires the PA to have at least 40-hours of didactic education AND at least 40-hours of clinical education

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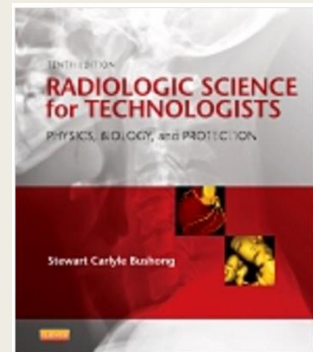
About This Course (cont)

- To satisfy the didactic requirement, we will be delivering content in an asynchronous manner
 - There will be reading, videos, and quizzes plus a final exam
- To satisfy the clinical component, you will be performing hands-on tasks in your clinical setting under the supervision of your licentiate/physician supervisor who possesses either a Radiology Supervisor/Operator permit OR a Fluoroscopy Supervisor/Operator permit
 - Of course, there are forms and these will be available on KP Scholar

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About This Course (cont)

- You'll need this:



- Radiologic Science for Technologists: Physics, Biology and Protection; 10th Edition, by Stewart Bushong
 - Much of the material in this course comes from this book and it is an excellent tool
 - While you will receive a lot of information from me, you will still have to study from this text

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About This Course (cont)

- We will give you this:
 - This is the accepted framework for fluoroscopy training throughout the US

Fluoroscopy Educational Framework for the Physician Assistant



This Educational Framework was created through the collaboration of the
American Academy of Physician Assistants
950 North Washington Street, Alexandria, VA 22314-1552
and
American Society of Radiologic Technologists
15000 Central Ave. SE, Albuquerque, NM 87123-3909
December 2009

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About This Course (cont)

- ...and this:
 - These are the content specifications outlining the material which will be covered on the Fluoroscopy exam



EXAMINATION CONTENT SPECIFICATIONS

ARRT BOARD APPROVED: JANUARY 2017
IMPLEMENTATION DATE: JANUARY 1, 2018

Fluoroscopy

The purpose of the fluoroscopy examination, which is developed and administered by The American Registry of Radiologic Technologists (ARRT) on behalf of state licensing agencies, is to assess the knowledge and cognitive skills underlying the intelligent performance of the tasks typically required to safely operate a fluoroscopy unit. ARRT administers the examination to state approved candidates under contractual arrangement with the state and provides the results directly to the state. This examination is not associated with any type of certification and registration by the ARRT.

To identify the knowledge and cognitive skills covered by the examination, the ARRT conducted a practice analysis study using input from subject matter experts and related published documents such as the *ASRT Fluoroscopy Educational Framework for Physician Assistants (2009)*.¹ The practice analysis resulted in a task inventory which serves as the basis for these content specifications and appears in *Appendix A* of this document.

The table below presents the major content categories and subcategories covered on the examination. The number of test questions in each category are listed in bold and number of test questions in each subcategory in parentheses. Specific topics within each category are addressed in the content outline, which makes up the remaining pages of this document.

This document is not intended to serve as a curriculum guide. Although testing programs and educational programs may have related purposes, their functions are clearly different. Educational programs are generally broader in scope and address subject matter not included in these content specifications.

Content Category	Number of Questions ²
Patient Care	9
Patient Interactions and Management (9)	
Safety	46
Radiation Physics and Radiobiology ³ (22)	
Radiation Protection (24)	
Image Production	35
Equipment Operation (22)	
Image Evaluation and Quality Control (13)	
Total	90

¹ A special debt of gratitude is due to the hundreds of professionals participating in this project as committee members, survey respondents, and reviewers.

² The exam includes up to an additional 30 unscored (pilot) questions.

³ SI units will become the primary (principle) units of radiation measurement used on the fluoroscopy examination in 2018.

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About This Course (cont)

- ...and this, too:
 - Individual chapters from this fluoroscopy module will be posted to the learning management system (KP Scholar) as they are in PDF format

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Prepare for Your California
Fluoroscopy Permit Exam

Online Education To Plan for the ARRT Exam

Prepare for the Exam.
Review the content areas in the California fluoroscopy exam.

Convenient.
Study anytime with these online fluoroscopy review courses.

Bonus!
Earn 12.75 CE credits when you pass the series.

Save 15% Today
Buy all six courses as a series and save!

These courses cover radiation safety for the clinical uses of fluoroscopy.

Fluoroscopy Training Series

Purchase the entire series to help prepare for taking the fluoroscopy exam to obtain your radiologic technologist fluoroscopy permit or fluoroscopy supervisor and operator permit in California. Courses also sold separately.

Member Price | Retail

Free Preview

Receive a free preview of Radiation Protection of the Eye.

Email:

First Name:

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About This Course (cont)

- ...and finally, the Code of Federal Regulations (CFR) and the Code of California Regulations (CCR) pertaining to radiation, radiation safety, and certification
- Once all of your tasks have been completed, we will issue a certificate of completion and an application to the State in order to take the Fluoroscopy certification exam

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Clinical Tasks


- To satisfy the State's requirements of 40 hours of clinical education, we will need documentation of the following:
 - Fluoroscopy unit orientation
 - Time spent in fluoroscopy with procedures performed
- All completed forms must be faxed to me at (877) 702-4063


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Clinical Tasks (cont)

- Fluoroscopy Unit Orientation
 - Must be done for each machine that will be used during your training
 - Must be conducted with a person who has a fluoroscopy certificate (technologist, licentiate, physician)
 - Completed with dates and signatures
 - Must be done FIRST then faxed to me for approval PRIOR to performing ANY procedures

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Fluoroscopic Device Orientation Check-off

PA Student: A (LAST) _____ (FIRST) _____ EIN: B _____

Must be completed for every additional fluoroscopy unit prior to performing an initial patient exam. physician assistants are required to document they can manipulate the fluoroscopic device in a safe and proper manner. Evaluators are to date and initial each item when satisfactorily completed. Indicate "NA" next to individual items only if they are not applicable to the device.

DATE	EVALUATOR Initials	
C	D	1. Radiation Safety.
		2. Perform a visual equipment safety check.
		3. Confirm control panel exposure settings.
		4. Set a manual technique.
		5. Enter patient identification.
		6. Demonstrate the full range of fluoroscopy tower movement.
		7. Demonstrate full range of fluoroscopy table movement.
		8. Adjust position of the fluoroscopy grid device.
		9. Apply patient footboard and shoulder restraints.
		10. Store and recall images.
		11. Produce hard copies and load cassettes.
		12. Operate exposure switch(es) (live fluoroscopy or DR store).
		13. Collimate fluoroscopy field.
		14. Change the field of view size.
		15. Reset the fluoroscopy timer.
		16. Switch programs and dose settings.
		17. Rotate and flip images.
		18. Hook up and turn on the C-arm.
		19. Locate and manipulate locks, rotate the arm and steer the c-arm.

Evaluator Name: _____ (LAST) _____ (FIRST) E Permit/License #: _____ (R/R/L/R/D/S/C/Fluoroscopy, R/F) F

Signature: _____ G Date: _____ H

KPSAHS Approved Form Revised 6/18

This form must be filled out completely so please read the directions at the top:

- a) Your name must be printed
- b) The EIN is the ID of the fluoroscopy unit
- c) A complete date MM/DD/YYYY
- d) Evaluator initials
 - a) If the topic is not applicable to your unit, please use N/A
- e) The printed evaluator name
- f) The fluoroscopy permit/license number of the evaluator
- g) The signature of the evaluator
- h) The date the form was signed

Clinical Tasks (cont)

■ Procedures Log / Time Sheet

- Documents procedures you actually performed
- Also incorporates the actual time spent performing fluoroscopy
- Verified and signed by the licentiate/physician with a fluoroscopy permit

Fluoroscopy Clinical Experience Daily Record

PA Student Name: (FIRST) (LAST) / (SIGN) Facility:

Minimum of 40 hours of various physically supervised fluoroscopy procedures are required. Procedures should be organized as presented in the sample table below and time recorded in 15-minute increments. *Fluoroscopy procedure minutes equals only the time spent performing fluoroscopy.

Table with 7 columns: Procedure, Date Performed, Time of Day, *Fluoroscopy Procedure Minutes, Department/Room, Equipment Identification Number (EIN), Initials (Supervising Evaluator). Includes an example row and a summary section for initials, name, signature, and permit number.

Page ____ of ____

Revised 6/18/18

Any falsification of documentation will result in disciplinary action up to and including dismissal from the course. This form may be duplicated.

KAISER PERMANENTE SCHOOL OF ALLIED HEALTH SCIENCES Fluoroscopy Clinical Experience Daily Record PA Student Name: (FIRST) (LAST) / (SIGN) Facility:

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Page ____ of ____

Revised 6/18/18

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**Fluoroscopy Clinical Experience
Daily Record**

PA Student Name: _____ / _____ Facility: _____
(FIRST) (LAST) (SIGN)

Minimum of 40 hours of various physically supervised fluoroscopy procedures are required. Procedures should be organized as presented in the sample table below and time recorded in 15-minute increments. *Fluoroscopy procedure minutes equals only the time spent performing fluoroscopy.

Procedure	Date Performed	Time of Day	*Fluoroscopy Procedure Minutes	Department/Room	Equipment Identification Number (EIN)	Initials (Supervising Evaluator)
Example: Lumbar puncture under fluoroscopy	mm/dd/yy	9:00 AM	15 mins	Ortho/Room 1	123456	BTL
			TOTAL Minutes: _____			
Initials (Supervising Evaluator)	Full Name (Supervising Evaluator) (Last) (First)		Signature (Supervising Evaluator)	Permit Number RHL, RHD, RHC-Fluoroscopy, RHF (Supervising Evaluator)		

Page ____ of ____

Revised: 6/18/18

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KPSAHS Approved Form

**Fluoroscopy Clinical Experience
Daily Record**

PA Student Name: _____ / _____ Facility: _____
(FIRST) (LAST) (SIGN)

Minimum of 40 hours of various physically supervised fluoroscopy procedures are required. Procedures should be organized as presented in the sample table below and time recorded in 15-minute increments. *Fluoroscopy procedure minutes equals only the time spent performing fluoroscopy.

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Page ____ of ____

Revised: 6/18/18

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KPSAHS Approved Form

KAISER PERMANENTE SCHOOL of ALLIED HEALTH SCIENCES			938 MARINA WAY SOUTH RICHMOND, CA 94804 510-231-5000 / TOLL FREE 1-888-299-0077 WWW.KPSAHS.ORG			
Fluoroscopy Clinical Experience Daily Record						
PA Student Name: _____ / _____ Facility: _____						
		(FIRST)	(LAST)	(SIGN)		
Minimum of 40 hours of various physically supervised fluoroscopy procedures are required. Procedures should be organized as presented in the sample table below and time recorded in 15-minute increments. *Fluoroscopy procedure minutes equals only the time spent performing fluoroscopy.						
Procedure	Date Performed	Time of Day	*Fluoroscopy Procedure Minutes	Department/Room	Equipment Identification Number (EIN)	Initials (Supervising Evaluator)
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Procedure	Date Performed	Time of Day	*Fluoroscopy Procedure Minutes	Department/Room	EIN	Initials (Supervising Evaluator)
			TOTAL Minutes:			
Initials (Supervising Evaluator)	Full Name (Supervising Evaluator) (Last) (First)		Signature (Supervising Evaluator)		Permit Number RHL, RHD, RHC-Fluoroscopy, RHF (Supervising Evaluator)	

Page ___ of ___ ← Any falsification of documentation will result in disciplinary action up to and including dismissal from the course. This form may be duplicated. Revised 6/18/18

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At the End of the Course

- All tasks within the didactic portion must be complete
 - Includes videos and quizzes
 - Once the quizzes are complete, notify us and we will send you the password for the final exam (you will have three (3) attempts)
 - All forms must be completed and faxed
- Once we have verification, we will send you a certificate of completion and the application for the State exam – the course is then complete
 - Until you have received your fluoroscopy certificate from the State, you are NOT legally able to perform fluoroscopy after the course

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FAQ's

- This seems like a lot. What gives?
 - The state of California is very particular about protecting our patients from radiation. The State has determined that PAs must undergo the same training as a technologist or radiography student.
- How long will this take?
 - You have three (3) quarters (approx. 9 months) from the start of the course in which to complete all of the requirements. We recommend you log into KP Scholar frequently and keep up with the tasks outlined on a weekly basis. There will be quizzes after each major topic to help reinforce your learning.

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FAQ's

- You mentioned the licentiate/physician supervisor. I have to be supervised for this?
 - Yes, in the clinical setting. The supervising licentiate/physician will provide general supervision while you are going through this course. That person will have to sign off on your documents during your clinical training. We will cover specifics in more detail in a later lecture.

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FAQ's

■ So I have to take a test, too?

- Actually, two major tests. One final exam to get out of our fluoroscopy course and another for State certification. For the final exam, you will need to complete all lectures and all quizzes before we provide a password for that exam. For the State exam, you will send in a copy of the completion certificate, the application, and a copy of your license for approval by the State. The State will let you know how to sign up for the certification exam.

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FAQ's

■ OK, so how shall I study?

- In small, frequent portions. Refer to the lectures, handouts, and the book to assist with your learning. Keep up with all of the tasks and keep your study time short (less than an hour per session) as your brain needs time to process. This is new and unfamiliar to you so try to review frequently so you understand the concepts. As long as you understand the concepts, the manner in which the questions are asked will not pose a problem. As of now, over 120 of your PA peers have passed the State Fluoroscopy exam.

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