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| For Academic Affairs and Research Use Only | |
| Proposal Number |  |
| CIP Code: |  |
| Degree Code: |  |

**NEW CERTIFICATE PROGRAM FORM**

(Also requires Arkansas Department of Higher Education (ADHE) approval)

**[X] Undergraduate Curriculum Council**

**[ ] Graduate Council**

Signed paper copies of proposals submitted for consideration are no longer required. Please type approver name and enter date of approval.

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| |  |  | | --- | --- | | Deanna Barymon | 10/19/2020 |   **Department Curriculum Committee Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **COPE Chair (if applicable)** |
| |  |  | | --- | --- | | Cheryl DuBose | 10/13/2020 |   **Department Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Head of Unit (if applicable)** |
| |  |  | | --- | --- | | Shanon Brantley | 10/28/2020 |   **College Curriculum Committee Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Undergraduate Curriculum Council Chair** |
| |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **College Dean** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Graduate Curriculum Committee Chair** |
| |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **General Education Committee Chair (if applicable)** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Vice Chancellor for Academic Affairs** |

1. **Contact Person** (Name, Email Address, Phone Number)

Jessica Cooper, [jmcooper@astate.edu](mailto:jmcooper@astate.edu), 870.972.2747

Cheryl DuBose, [cdubose@asate.edu](mailto:cdubose@asate.edu), 870.972.2772

1. **Name of proposed Certificate Program (Program must consist of 6-21 semester credit hours):**

Certificate of Proficiency for the Limited X-Ray Machine Operator

1. **Proposed effective date:**

Fall 2021

1. **Reason for proposed program implementation:**

Prepare students for the ARRT Limited Scope of Practice in Radiography exam for the state of Arkansas Licensure and to work in the clinical setting of physician offices. Formal education program to correct for community complaint of Limited License technicians being uneducated on positioning, radiation safety, and image critique.

1. **Provide the following:**
   * 1. Curriculum outline - List of courses in new program – Underline required courses

RSLT 2012 Introduction to Limited X-Ray Machine Operator

RSLT 2013 Imaging Equipment and Exposure

RSLT 2021 Limited X-Ray Machine Operator Chest and Spine Procedures *or* RSLT 2031 Limited X-Ray Machine Operator Extremity Procedures

CLS 1512 Fundamentals of Clinical Laboratory Science

CLS 1511 Fundamentals of Clinical Laboratory Science Lab

HP 2013 Medical Terminology

RS 436V Independent Study

* + 1. Total semester credit hours required for proposed program

15

* + 1. New courses and new course descriptions

RSLT 2012 Introduction to Limited X-Ray Machine Operator

*Introduction to the clinical environment, general patient care, legal and ethical issues, radiation protection, and*

*general radiobiology.* *Prerequisite, Admission to Certificate of Proficiency for the Limited X-Ray Machine*

*Operator. Fall.*

RSLT 2013 Imaging Equipment and Exposure

*Image acquisition for image receptors; image quality evaluation process, factors, and*

*analysis; manipulation of exposure factors and evaluation in laboratory setting. Focus on application of skills*

*and optimal image acquisition. Prerequisite, Admission to Certificate of Proficiency for the Limited X-Ray*

*Machine Operator. Fall.*

\*RSLT 2021 Limited X-Ray Machine Operator Chest and Spine Procedures

*Radiographic terminology and steps of radiographic exams. Radiographic anatomy and positioning of the Chest*

*and Spine.* *Prerequisite, Admission to Certificate of Proficiency for the Limited X-Ray Machine Operator. Fall.*

\*RSLT 2031 Limited X-Ray Machine Operator Extremity Procedures

*Radiographic terminology and steps of radiographic exams. Radiographic anatomy and positioning of the*

*extremities.* *Prerequisite, Admission to Certificate of Proficiency for the Limited X-Ray Machine Operator. Fall.*

\**Students choose which procedure class best fits their career needs.*

* + 1. Program goals and objectives

The Certificate of Proficiency for the Limited X-Ray Machine Operator will produce competent, limited scope of practice radiographers.

1. Students will be clinically competent in radiography and patient safety.
2. Students will develop critical thinking skills for image critique.
   * 1. Expected student learning outcomes

1. Students will be clinically competent in radiography and patient safety.

Outcome:

a. Students will communicate effectively with patients.

b. Students will provide proper radiation safety.

c. Students will produce quality radiographs.

2. Students will develop critical thinking skills for image critique.

Outcome:

a. Students will adequately critique images.

b. Students will recommend corrective action for sub-optimal radiographs.

* + 1. Documentation that program meets employer needs

As of the September 4, 2020, Indeed.com had 9 job openings for Limited Licensed Radiographers in Northeast AR. Several job openings had been posted for 30+ days. After speaking to many clinics in our area, I found the majority hire limited licensed radiographers. All clinics believed a certificate program would be very helpful in educating their staff. They also stated they would hire someone with a certificate from A-State over someone without a certificate.

* + 1. Student demand (projected enrollment) for proposed program

Approximately 12-14 students every fall semester.

* + 1. Program approval letter from licensure/certification entity, if required (attach) N/A
    2. Name of institutions offering similar programs and the institution(s) used as model to develop proposed program

Weber State University, Utah; Portland School of Radiography, Oregon; Petra Allied Health, Arkansas

* + 1. Proposed program review date (within 10 years of program implementation)

Spring 2027

1. **Will this program be offered:**
   1. **Traditional/Face-to-face Yes**
   2. **Distance/Online** Yes
      1. **If yes, indicate mode of distance delivery, and the percentage of courses offered via this modality (<50%, 50-99%, or 100%).**

50-75%

* + 1. **If online, will it be offered through Global Initiatives/Academic Partnerships (AP)?**

No

1. **Will this program be offered off-campus?** No
   1. **If yes, identify the off-campus location**

Enter text...

**Bulletin Changes**

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| **Instructions** |
| **Please visit** [**http://www.astate.edu/a/registrar/students/bulletins/index.dot**](http://www.astate.edu/a/registrar/students/bulletins/index.dot) **and select the most recent version of the bulletin. Copy and paste all bulletin pages this proposal affects below. Please include a before (with changed areas highlighted) and after of all affected sections.**  **\*Please note: Courses are often listed in multiple sections of the bulletin. To ensure that all affected sections have been located, please search the bulletin (ctrl+F) for the appropriate courses before submission of this form.** |

**[AFTER]**

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**Certificate of Proficiency for the Limited X-Ray Machine Operator**

This program will prepare students for the ARRT Limited Scope of Practice in Radiography exam for the State of Arkansas Licensure and to work in the clinical setting of physician offices. This is a formal education program to educate limited license technicians on radiologic positioning, radiation safety, and image critique.

RSLT 2012 Introduction to Limited X-Ray Machine Operator 2

RSLT 2013 Imaging Equipment and Exposure 3

RSLT 2021 Limited X-Ray Machine Operator Chest and Spine Procedures *or*

RSLT 2031 Limited X-Ray Machine Operator Extremity Procedures 1

CLS 1512 Fundamentals of Clinical Laboratory Science 2

CLS 1511 Fundamentals of Clinical Laboratory Science Lab 1

HP 2013 Medical Terminology 3

RS 436V Independent Study 3

**Total Required Hours: 15**

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RSLT 2012. Introduction to Limited X-Ray Machine Operator. An introduction to the clinical environment, general patient care, legal and ethical issues, radiation protection, and general radiobiology. Prerequisite, Admission to Certificate of Proficiency for the Limited X-Ray Machine Operator. Fall.

RSLT 2013. Imaging Equipment and Exposure. Image acquisition for image receptors; image quality evaluation process, factors, and analysis; manipulation of exposure factors and evaluation in laboratory setting. Focus on application of skills and optimal image acquisition. Prerequisite, Admission to Certificate of Proficiency for the Limited X-Ray Machine Operator. Fall.

RSLT 2021. Limited X-Ray Machine Operator Chest and Spine Procedures. Radiographic terminology and steps of radiographic exams. Radiographic anatomy and positioning of the chest and spine. Prerequisite, Admission to Certificate of Proficiency for the Limited X-Ray Machine Operator. Fall.

RSLT 2031. Limited X-Ray Machine Operator Extremity Procedures. Radiographic terminology and steps of radiographic exams. Radiographic anatomy and positioning of the extremities. Prerequisite, Admission to Certificate of Proficiency for the Limited X-Ray Machine Operator. Fall.