PROGRAM ASSESSMENT PLANNING FORM

Program to be assessed:

Title: Computed T Division: Health		Advanced Certific Department: A	_	Program Code: CPCTO
Type of Award:	A.A. Cert.	☐ A.S ☑ Adv. Cert.	A.A.S. Post-Assoc. Cert.	Cert. of Completion

Assessment plan:

Learning outcomes to be assessed	Assessment tool	When assessment will take place	Describe population to be assessed	Number of students to be assessed
Perform diagnostic Computed Tomography procedures.	RAD 267 – Students will complete 125 procedural competencies by the end of the second clinical semester.	During the end of the second semester of the program.	Students enrolled in RAD 267	All
2. Operate Computed Tomography equipment.	RAD 267 – End-of- Semester Performance Evaluation that demonstrates Technical Aptitude.	During the final semester of the program.	Students enrolled in RAD 267	All
3. Students admitted to the Computed Tomography (CT) program will complete the program.	Completion rates.	During the final semester of the program.	Students admitted to the program.	All
4. Pass the national certification exam.	American Registry of Radiologic Technologists (ARRT) Annual Program Summary Report	One year after the completion of the program.	Students that have completed the program.	All

Scoring and analysis of assessment:

- 1. Indicate how the above assessment(s) will be scored and evaluated (e.g. departmentally developed rubric, external evaluation, other). Attach the rubric/scoring guide.
 - 1. Total number of procedural competencies achieved by students will be assessed by program faculty.
 - 2. Item analysis from clinical education course RAD 267 performance evaluation.
 - 3. Completion rates will be reviewed to determine student retention.
 - 4. The ARRT examination is a standardized national certification exam.
- 2. Indicate the standard of success to be used for this assessment.
 - 1. Seventy-five percent of students will have earned 125 or more competencies by the end of their RAD 267 Clinical Education course.
 - 2. Seventy-five percent of students will achieve an "Effective Performance" rating on their RAD 267 Clinical Education performance evaluation.
 - 3. Ninety percent of the students admitted to the program will complete the program.
 - 4. Ninety percent of the students that complete the program will pass their certification exam on the first attempt.
- 3. Indicate who will score and analyze the data (data must be blind-scored).

PROGRAM ASSESSMENT PLANNING FORM

Program faculty will score and analyze the data.

Submitted by:

Name: _____

Dept. Chair: Print/Signatur

 Date:

Date:

Date:

4 Committees 6/4/19

Please return completed form to the Office of Curriculum & Assessment, SC 257.

PROGRAM PROPOSAL FORM

a program proposal. For final appro	n completing this form after the Vice President for Instruction has given prelimitoval, complete information must be provided for each item.	nary approval to	
Program Name:	Computed Tomography (CT) Advanced Certificate Program	Program	
Division and Department:		Code:	
Гуре of Award:	Math, Science & Health Division; Allied Health Department (Radiography)	CPCTO	
type of Award.	□ AA □ AS □ AAS	CICIO	
300 · · · · · · · / / / / / / / / / / / /	Cert. Adv. Cert. Post-Assoc. Cert. Cert. of Comp.		
Effective Term/Year:	Fall 2012	CIP Code:	
nitiator:	•		
	Connie Foster	51.0814	
Program's purpose and its goals. Criteria for entry into the program,	American Registry of Radiologic Technologists' (ARRT) post-primary registre examination in computed tomography, as well as for entry-level computed to employment. Due to limited space, this program will require a second admiss program.	mography	
along with projected enrollment	The criteria for admission in the Computed Tomography program:		
figures.	 Registered radiologic technologist with primary certification in Radi (R), Nuclear Medicine ARRT (N), or Radiation Therapy, ARRT (T) Nuclear Medicine Technologist, CNMT 		
	Graduate of a JRCERT accredited Program		
	Minimum GPA of 2.7		
	Current CPR certification		
	 Completed college physical form by licensed physician Crime-free criminal background check 		
	Completion of RAD 223 Sectional Anatomy, or an equivalent cours	se, with a grade	
Connection to other WCC programs,	of B- or better.		
s well as accrediting agencies or	The projected enrollment is 12 students.		
professional organizations.	The Computed Tomography (CT) program will provide graduates of the War Community College Radiography Program with an opportunity to obtain adv	vanced	
Special features of the program.	certification in computed tomography (CT). It will also assist ARRT certified technologists in preparation for advanced Certification in Computed Tomography	d radiologic	
	This is an advanced specialized field for imaging professionals that is beginning technologists to complete a formal educational program. Registered radiologists who complete the computed tomography program will also sat continuing education requirements for a 2-year period.	gic	

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Need				
Need for the program with evidence to support the stated need.	The State of Michigan now requires that unregistered computed tomography (CT) technologists complete 20 hours of training and experience in operating CT equipment, radiation physics, and radiation protection or obtain the advanced certificate in computed tomography from the American Registry of Radiologic Technologist (ARRT). The computed tomography courses will be taught by a certified computed tomography (CT) technologist in the OE 121 radiography lab during the evening and/or weekends. Only a few ancillary items will need to be purchased for this program, i.e. anatomical models, instructional software, which is estimated to cost less than \$1,000.00. No dedicated computed tomography x-ray equipment will need to be purchased for the computed			
	tomography program.			•
Program Outcomes/Assessment	Outcomes		Assessmer	it method
State the knowledge to be gained, skills to be learned, and attitudes to be developed by students in the program.	Students completing the Com (CT) Program will demonstra the principles of computed to comparable to graduates of or programs.	te competency in mography	Techno	an Registry of Radiologic logists (ARRT) Computed raphy (CT) Certification ation
Include assessment methods that will be used to determine the effectiveness	Students admitted to the Com (CT) Program will complete to	he program.	2. Gradua	tion rates
of the program.	3. Students will express satisfacti Computed Tomography (CT)		3. Gradua	te Survey
Curriculum List the courses in the program as they should appear in the catalog. List minimum credits required. Include any notes that should appear below the course list.	The proposed program courses inch RAD 261 Principles of Computed T RAD 263 Practical Computed Tome students RAD 265 Computed Tomography (clinical hours) RAD 266 Advanced Computed Tore students RAD 267 Computed Tomography (clinical hours) In an effort to accommodate we offered in a blended-format in a	omography (2 credits ography (CT) Imaging (CT) Clinical Education ography (CT) Imaging (CT) Clinical Education orking radiologic to the radiography lab	g (2 credits; 3 on 1 (2 credits; 3 on II (3 credits; on II (3 cred	ts; 3 days/week x 7.5 weeks = 180 20 contact hours): limited 12 ts; 3 days/week x 15 weeks = 360 s, classroom instruction will be 1. Clinical education will be
budget		START-UP CO	OSTS	ONGOING COSTS
Specify program costs in the following	Faculty	\$.		\$.
areas, per academic year:	Training/Travel	•		•
	Materials/Resources	2000	•	2000 .
	Facilities/Equipment	•		•
	Other	•		
	TOTALS:	\$ 2,000.00		\$2000 .

Program Description for Catalog and Web site	The computed tomography (CT) program is a post-associate advanced certificate program that is designed for registered radiologic technologists (ARRT), radiation therapists (ARRT), and nuclear medicine technologists (ARRT or NMTCB). This program offers the didactic and clinical experience that will provide students with the knowledge and skills that are required to become an entry-level computed tomography technologist. The curriculum is based on the recommended American Society of Radiologic Technology (ASRT) computed tomography guidelines. Upon successful completion of the computed tomography program, students are eligible to take the ARRT post-primary certification examination in computed tomography.
Program Information	Accreditation/Licensure – The program will be accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT) Advisors – Connie Foster and William Nelson Advisory Committee – Radiography Advisory Committee Admission requirements – Formal admission to the program Articulation agreements – No articulation agreements Continuing eligibility requirements -

Assessment plan:

Program outcomes to be assessed	Assessment tool	When assessment will take place	Courses/other populations	Number students to be assessed
Demonstrate competency in the principles of mammography comparable to graduates of other similar national programs.	American Registry of Radiologic Technologists (ARRT) Computed Tomography (CT) Certification Examination	Within 6 months of graduation	Program graduates	12 students
Students admitted to the Computed Tomography (CT) Program will complete the program.	Graduation rates	Within 6 months of graduation	Program graduates	12 students
Students will express satisfaction with the Computed Tomography (CT) Program.	Graduate Survey	Within 6 months of graduation	Program graduates	12 students

Scoring and analysis plan:

- 1. Indicate how the above assessment(s) will be scored and evaluated (e.g. departmentally developed rubric, external evaluation, other). Attach the rubric.
 - 1. ARRT examination is a standardized national exam.
 - 2. Graduate rates will be reviewed to determine student retention.
 - 3. A graduate survey will be administered to all students at the end of the program and will be blind-scored via Blackboard.
- 2. Indicate the standard of success to be used for this assessment.
 - 1. ARRT examination: Students will equal or exceed the national average on the ARRT Computed Tomography (CT) Certification Examination.
 - 2. 90% of the students admitted to the program will complete the program.
 - 3. Graduates will express satisfaction with the didactic and clinical courses.
- 3. Indicate who will score and analyze the data.

WCC full-time and part-time faculty will score and analyze the data.

4. Explain how and when the assessment results will be used for program improvement.

The radiography program faculty members and the part-time computed tomography (CT) instructors will meet to review and discuss the assessment results after the completion of the Computed Tomography (CT) program. The assessment results will be used to revise the computed tomography (CT) courses that will be offered during the next Fall and Winter terms.

REVIEWER	PRINT NAME	SIGNATURE	DATE
Department Chair/Area Director	Connie Foster	Connii John	1/24/12
Dean	Martha Showalt	1 92 7	1/26/12
Vice President for Instruction Approved for Development Final Approval	STUDENT Blackley	2 RIM	3/23/12
President	Rose B. Bell	in RB Bellane	x 3/23/12
Board Approval			4/84/12

Program Information Report

School of Nursing and Health Sciences

Find your place in the growing field of health care. The School of Nursing and Health Sciences provides a variety of programs designed to prepare the student for entry-level positions in dental assisting, pharmacy technology, physical therapist assistant, radiography, nursing assistant or professional nursing. The health care foundations certificate provides a starting point for prospective nursing and health science students or provides the general education courses to move from completion of a certificate program into an associate degree program.

Washtenaw Community College offers programs at several levels for students who want to begin new careers, or advance in their existing careers. The first level is the certificate, which can vary from nine to thirty-six credits, depending on the field. Certificates generally prepare students for entry-level jobs.

After completing a certificate, students can progress to the next level, the advanced certificate. The credit hours required for these programs also vary. This type of certificate provides a more specialized level of skill development, and often allows students to upgrade their positions at their places of employment.

The next level, an Associate in Applied Science, is available for some programs. For some career fields, it is possible to earn a certificate, an advanced certificate, and an Associate in Applied Science degree in the same field. In these cases, the credit hours from the certificate and advanced certificate can be applied to the credit hours needed for the Associate in Applied Science degree.

Alternatively, students can earn an AAS in Occupational Studies by completing a certificate, an advanced certificate and General Education requirements.

Radiography

Prepare for a career as a radiographer, operating medical imaging equipment.

Computed Tomography (CPCTO)

Post-Associate Certificate

Program Effective Term: Fall 2012

The Computed Tomography (CT) program is a post-associate advanced certificate program that is designed for registered radiologic technologists (ARRT), radiation therapists (ARRT), and nuclear medicine technologists (ARRT or NMTCB). This program offers the didactic and clinical experience that will provide students with the knowledge and skills that are required to become an entry-level computed tomography technologist. The curriculum is based on the recommended American Society of Radiologic Technology (ASRT) computed tomography guidelines. Upon successful completion of the Computed Tomography program, students are eligible to take the ARRT post-primary certification examination in computed tomography.

Program Admission Requirements:

The criteria for admission Admission to the Computed Tomography program:

- -Registered radiologic technologist with primary certification in Radiography ARRT (R), Nuclear Medicine ARRT (N), or Radiation Therapy, ARRT (T) and Certified Nuclear Medicine Technologist, CNMT
- -Graduate of a JRCERT accredited program
- -Minimum GRA of 2.7
- -Current CPR certification
- -Completed college physical form by licensed physician
- -Crime-free criminal background check
- -Completion of RAD 223 Sectional Anatomy, or an equivalent course, with a grade of B- or better.

Major/Area	Productions:	and the second
RAD 262	Principles of Computed Tomography (CT)	2
RAD 263	Practical Computed Tomography (CT) Imaging	2
RAD 265	Computed Tomography (CT) Clinical Education I	2
RAD 266	Advanced Computed Tomography (CT) Imaging	2
RAD 267	Computed Tomography (CT) Clinical Education II	3

Minimum Credits Required for the Program:

PROGRAM PROPOSAL FORM

Preliminary Approval – Check her items in general terms.	b is a program proposal, and respond to the			
Final Approval – Check here when a program proposal. For final appro	n completing this form after the Vice President for Instruction has given prelimitation oval, complete information must be provided for each item.	nary approval to		
Program Name:	Computed Tomography (CT) Certificate Program Pro			
Division and Department:	Math, Science & Health Division; Allied Health Department (Radiography)	Code:		
Type of Award:	☐ AA ☐ AS ☐ AAS ☐ Cert. ☐ Cert. ☐ Cert. of Comp.	<u>cr</u> cto		
Effective Term/Year:	Fall 2012	CIP Code:		
Initiator:	Connie Foster			
Program Features		是是不是一个。 第二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十		
Program's purpose and its goals.	The purpose of the Computed Tomography (CT) program is to prepare stud American Registry of Radiologic Technologists' (ARRT) post-primary registr examination in computed tomography, as well as for entry-level computed to employment.	y certification		
Criteria for entry into the program, along with projected enrollment figures.	 The criteria for admission in the Computed Tomography program: Registered radiologic technologist with primary certification in Radiography, Nuclear Medicine or Radiation Therapy Graduate of a JRCERT accredited Program Minimum GPA of 2.7 Current CPR certification Completed college physical form by licensed physician Crime-free criminal background check The projected enrollment is 12 students. 	1		
Connection to other WCC programs, as well as accrediting agencies or professional organizations.	The Computed Tomography (CT) program will provide graduates of the Was Community College Radiography Program with an opportunity to obtain advectification in computed tomography (CT). It will also assist ARRT certification technologists in preparation for advanced Certification in Computed Tomography	anced l radiologic		
Special features of the program.	This is an advanced specialized field for imaging professionals that is beginning technologists to complete a formal educational program. Registered radiolog technologists who complete the computed tomography program will also satisfaction to the continuing education requirements for a 2-year period.	ic		
Need				
Need for the program with evidence to support the stated need.	The State of Michigan now requires that unregistered computed tomography technologists complete 20 hours of training and experience in operating CT eradiation physics, and radiation protection or obtain the advanced certificate tomography from the American Registry of Radiologic Technologist (ARRT)	quipment, in computed		
	The computed tomography (CT) courses will be taught by part-time faculty. accommodate working technologist, the CT courses will be taught in the radii OE 121 during the evening and/or weekends. Only a few ancillary items will purchased for this program, i.e. anatomical models, instructional software, whe estimated to cost less than \$1,000.00. No dedicated computed tomography will need to be purchased for the computed tomography program.	ography lab in need to be nich is		

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Program Outcomes/Assessment	Outcomes	Assessment method
State the knowledge to be gained, skills to be learned, and attitudes to be developed by students in the program.	 Operate the CT scanner and its ancillary devices. Prepare and position patients for CT scans. Process images using conventional film/screen systems and digital imaging systems. 	1.
Include assessment methods that will be used to determine the effectiveness of the program.	4. Perform quality control tests for CT imaging system performance.5. Demonstrate professional conduct and attitudes.	

Please return completed form to the Office of Curriculum & Assessment and email an electronic copy to <u>sjohn@wccnet.edu</u> for posting on the website.

Curriculum			
	The proposed program courses in	nclude:	
List the courses in the program as they should appear in the catalog. List minimum credits	RAD 223: Sectional Anatomy (2 o	credits; 30 contact hours): Prerequisi	te course for CT program
required. Include any notes that should	RAD 262 Principles of Computed	d Tomography (2 credits; 30 contact	hours) limited 12 students
appear below the course list.	RAD 263 CT Protocols I (2 credi	ts; 30 contact hours): limited 12 stud	ents
	RAD 264 CT Clinical Educations	I (3 credits; 3 days/week x 15 weeks	s = 360 clinical hours)
	RAD 265 CT Pathology (2 credits	s: 20 contact hours): limited 12 stude	nts
	RAD 266 CT Protocols II (3 cred	lits; 2 credits: 20 contact hours): limit	ted 12 students
	RAD 267 CT Clinical Educations	I (3 credits; 3 days/week x 15 weeks	s = 360 clinical hours)
	offered in a blended-format i	working radiologic technologist n the radiography lab in OE 12 and a number of affiliated health	Clinical education will be
Budget		START-UP COSTS	ONGOING COSTS
Specify program costs in the following	Faculty	\$.	\$.
areas, per academic year:	Training/Travel	•	•
	Materials/Resources	1000 -	•
	Facilities/Equipment	•	•
	Other	•	•
	TOTALS:	\$ 1000 . —	\$.
	is designed for registered radio nuclear medicine technologists clinical experience that will pro- become an entry-level comput recommended American Socie guidelines. Upon successful co eligible to take the ARRT post	T) program is a post-associate acologic technologists (ARRT), radio (ARRT or NMTCB). This program is a constant to the students with the knowledged tomography technologist. The ety of Radiologic Technology (Assompletion of the computed tomography certification examination working radiologic technologist, t	ation therapists (ARRT), and gram offers the didactic and ge and skills that are required to e curriculum is based on the GRT) computed tomography ography program, students are in in computed tomography.

Program Information	Accreditation/Licensure – The program will be accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT)
	Advisors – Connie Foster and William Nelson
	Advisory Committee –
	Admission requirements -
	Articulation agreements -
	Continuing eligibility requirements -

Assessment plan:

Program outcomes to be assessed	Assessment tool	When assessment will take place	Courses/other populations	Number students to be assessed
100				

Scoring and analysis plan:

1.	Indicate how the above assessment(s) will be scored and evaluated (e.g. departmentally developed rubric, exte	rnal
	evaluation, other). Attach the rubric.	

2. Indicate the standard of success to be used for this assessment.

3. Indicate who will score and analyze the data.

4. Explain how and when the assessment results will be used for program improvement.

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REVIEWER	A PRINT NAME	SIGNATURE	DATE
Department Chair/Area Director	(mnic foster	Comui Fosta	11/10/11
Dean	MarthaShowalter	Martin Stourt	11/0/11
Vice President for Instruction Approved for Development Final Approval	Bull	Stuart Blacklaw	11/14/11
President			
Board Approval			