



Republic of the Philippines
OFFICE OF THE PRESIDENT
COMMISSION ON HIGHER EDUCATION



CHED MEMORANDUM ORDER (CMO)
NO. 30
Series of 2013

SUBJECT : MODEL EMBEDMENT OF TVET COMPETENCIES/ QUALIFICATIONS IN THE LADDERIZED BACHELOR OF SCIENCE IN RADIOLOGIC TECHNOLOGY PROGRAM

x-----x

In accordance with the pertinent provisions of Republic Act (RA) No. 7722 otherwise known as the "Higher Education Act of 1994," and by virtue of Commission En Banc Resolution No. 638-2013 dated September 09, 2013, the model embedment of Technical and Vocational Education and Training (TVET) Competencies and Qualifications in the Ladderized Bachelor of Science in Radiologic Technology Program is hereby adopted and promulgated by the Commission.

ARTICLE I
AUTHORITY TO OPERATE

Section 1 Authority to Operate

All Private Higher Education Institutions (PHEIs) with recognized Bachelor of Science in Radiologic Technology granted by the Commission on Higher Education (CHED) and by the respective Governing Boards in the case of chartered State Universities and Colleges (SUCs), and Local Colleges and Universities (LCUs) intending to offer the ladderized Bachelor of Science in Radiologic Technology shall submit to CHED the necessary documents required by CMO No. 43 series 2008, Implementing Guidelines of Executive Order No. 694 entitled "Enabling Higher Education Institutions to Opt to Ladderize their Education Programs Without Need for Issuance of Permit from the Commission on Higher Education and the Technical Education and Skills Development Authority."

ARTICLE II
CURRICULUM

Section 2 Curriculum Description

The model embedment of the Ladderized BSRadTech curriculum shall be adopted as the minimum requirement and shall be built as prescribed in "CMO No.18, S. 2006 - Policies, Standards and Guidelines for Radiologic Technology Education" for the completion of the ladderized BSRadTech program. TESDA Training Regulations embedded in this curriculum are:

TVET Qualification/s
Track 1:
Medical Transcription NC II

Track 2:
Barangay Health Services NC II
Track 3:
Health Care Services NC II

Section 3 Curriculum Outline

The curriculum outline is divided into four (4) components namely: General Education Courses, Major Courses, Professional Courses and Practicum / Work Integrated Learning.

Section 4 Faculty Qualifications and Other Requirements

HEIs which intend to offer the ladderized BSRadTech program should satisfy the requirements as prescribed in CHED Memorandum Order No.18, s. 2006 and TESDA Training Standards requirements (curriculum design, training delivery, laboratory facilities, equipment and tools, faculty/trainer qualifications as indicated in the specific Training Regulations) as prescribed in CMO No. 43, s. 2008.

Section 5 Recognition of TESDA National Certificates in CMO No. 18 series 2006

HEIs may accept a holder with valid relevant TESDA National Certificates who wishes to pursue BSRadTech program. Such certificates may be given credit units upon verification by the concerned HEIs. Further, the Transcript of Records shall reflect the grade of "Passed" and TESDA NC level.

Section 6 Model program of study

The institution may enrich the sample/model program of study depending on the needs of the industry, provided that all prescribed courses required in the curriculum outline are offered and pre-requisite and co-requisite are **complied with**. Please refer to **ANNEX I**.

**ARTICLE III
GENERAL REQUIREMENTS**

Section 7 The general requirements for the Bachelor of Science in Radiologic Technology Program are contained in CMO 18, s. 2006.

**ARTICLE IV
MONITORING AND EVALUATION**

Section 8 **CHED will initially conduct an evaluation of the HEIs that will offer the ladderized program prior to implementation.**

CHED together with TESDA representatives shall jointly monitor and evaluate for compliance audit after two (2) years of offering, to ensure compliance with the minimum requirements. Compliance audit shall be done at least once every two years.



**ARTICLE IV
SANCTIONS**

Section 9 For violations of this CMO, the Commission may impose such administrative sanction as it may deem appropriate pursuant to the pertinent provisions of Republic Act No. 7722, in relation to Section 69 of BP 232 otherwise known as the Higher Education Act of 1982, and Section 143 of the Manual of Regulations for Philippine Higher Education (MORPHE), and other related laws.

**ARTICLE V
SEPARABILITY AND REPEALING CLAUSE**

Section 10 Any provision of this Order, which may hereafter be held invalid, shall not affect the remaining provisions.

**ARTICLE VI
EFFECTIVITY CLAUSE**

Section 11 This CMO shall take effect starting 1st semester of SY 2014- 2015 after publication as required by law.

Quezon City, Philippines September 20, 2015

FOR THE COMMISSION:



PATRICIA B. LICUANAN, Ph. D.
Chairperson



MODEL EMBEDMENT OF BARANGAY HEALTH SERVICES NC II IN THE LEP BACHELOR OF SCIENCE IN RADIOLOGIC TECHNOLOGY

FIRST YEAR

1st SEMESTER

SUBJECT	LEC	LAB	UNITS	Hrs / Sem	Prereq	TVET modules			Theory	Practicum
						Units of Competency	Nominal Duration	Total Hrs.	Hrs / Wk	Hrs / Wk
Grammar & Composition 1	3	0	3	54		BASIC Participate in workplace communication				
Sining Ng Pakikipagtalastasan	3	0	3	54						
General Psychology	3	0	3	54		COMMON Respond effectively to difficult/challenging behavior				
College Algebra	3	0	3	54						
College Physics	3	2	5	162						
Introduction to Radiologic Technology w/ STS	3	0	3	54		BASIC Practice career professionalism				
Physical Education – 1	2	0	2	36						
NSTP-CWTS-1	3	0	3	54		BASIC Work in team environment				Integrated in RLE/ Practicum
						CORE Recruit and coordinate volunteers				
TOTAL	23	2	25	522		TVET TOTAL				

2nd SEMESTER

SUBJECT	LEC	LAB	UNITS	Hrs / Sem	Prereq	TVET modules			Theory	Practicum
						Units of Competency	Nominal Duration	Total Hrs.	Hrs / week	Hrs / week
Grammar and Composition II	3	0	3	54						
Pagbasa at Pagsulat	3	0	3	54						
Logic	3	0	3	54						
General Zoology	3	2	5	162						
Life and Works of Rizal	2	1	3	54						
Radiologic Physics, Equipment and Maintenance-1	2	1	3	90						
Physical Education-2	2	0	2	36						
NSTP-CWTS-2	3	0	3	54		COMMON Apply basic first aid				Integrated in RLE/ Practicum
						CORE Respond holistically to client issues				
TOTAL	22	3	25	558		TVET TOTAL				



SECOND YEAR

1st SEMESTER

SUBJECT	LEC	LAB	UNITS	Hrs / Sem	Prereq	TVET modules			Theory	Practicum
						Units of Competency	Nominal Duration	Total Hrs.	Hrs / Wk	Hrs / Wk
Philippine Literature	3	0	3	54						
Fundamental Skills and Word Processing	3	0	3	54						
Human Anatomy & Physiology	3	2	5	162						
Philosophy of Man	3	0	3	54						
Philippine Government & Constitution	3	0	3	54						
Radiologic Physics, Equipment & Maintenance II	2	1	3	90						
Radiographic Technique and Film Analysis I	2	1	3	90						
Physical Education III (Wall climbing, Rapelling)	2	0	2	36						
Philippine History	3	0	3	54						
Total	24	4	28	648						

2nd SEMESTER

SUBJECT	LEC	LAB	UNITS	Hrs / Sem	Prereq	TVET modules			Theory	Practicum
						Units of Competency	Nominal Duration	Total Hrs.	Hrs / Wk	Hrs / Wk
Sociology and Anthropology	3	0	3	54						
Health Economics w/ Taxation & Land Reform	3	0	3	54						
Community and Public Health	3	2	5	162		CORE Work within a community development framework				Integrated in community and public health- RLE/ Practicum
						CORE Prepare for work in the community service industry				
						CORE Support community resources				
						CORE Support community participation				
						CORE Develop and provide health education program in the community				



						CORE Implement health promotion and community intervention				
						BASIC Practice occupational health and safety procedures				
Medical Terminology	2	0	2	36						
Radiographic Technique and Film Analysis – 2	3	1	4	108						
Patient Care Management	2	1	3	90		COMMON Maintain high standard of patient service				
						COMMON Implement and monitor infection control policies and procedures				
Departmental Administration, Ethics and Jurisprudence	3	0	3	54		CORE Provide primary/ residential care				Integrated in Practicum
Physical Education -4	2	0	2	36						
Total	21	4	25	594		TVET TOTAL				

Borough Health Services NC III will be issued by TESDA upon passing the certification process.



**MODEL EMBEDMENT OF HEALTH CARE SERVICES NC II FOR BACHELOR OF SCIENCE IN
RADIOLOGIC TECHNOLOGY**

**FIRST YEAR
1st SEMESTER**

SUBJECT	LEC	LAB	UNITS	Hrs / Sem	Prereq	TVET modules			Theory	Practicum
						Units of Competency	Nominal Duration	Total Hrs.	Hrs / Wk	Hrs / Wk
Grammar & Composition I	3	0	3	54		BASIC Participation in workplace communication				
Sining Ng Pakikipagtalastasan	3	0	3	54						
General Psychology	3	0	3	54		COMMON Respond effectively to difficult/challenging behavior				
						CORE Assist in biopsychosocial support care of clients/patients				
College Algebra	3	0	3	54						
College Physics	3	2	5	162						
Introduction to Radiologic Technology w/ STS	3	0	3	54		BASIC Practice career professionalism				
Physical Education – 1	2	0	2	36						
NSTP-CWTS-1	3	0	3	54		BASIC Work in team environment				
TOTAL	23	2	25	522		TVET TOTAL				

2nd SEMESTER

SUBJECT	LEC	LAB	UNITS	Hrs / Sem	Prereq	TVET modules			Theory	Practicum
						Units of Competency	Nominal Duration	Total Hrs.	Hrs / week	Hrs / week
Grammar and Composition II	3	0	3	54						
Pagbasa at Pagsulat	3	0	3	54						
Logic	3	0	3	54						
General Zoology	3	2	5	162						
Life and Works of Rizal	2	1	3	54						
Radiologic Physics, Equipment and Maintenance-1	2	1	3	90						
Physical Education-2	2	0	2	36						
NSTP-CWTS-1	3	0	3	54		COMMON Apply basic first aid				
TOTAL	22	3	25	558		TVET TOTAL				

**SECOND YEAR
1st SEMESTER**

SUBJECT	LEC	LAB	UNITS	Hrs / Sem	Prereq	TVET modules			Theory	Practicum
						Units of Competency	Nominal Duration	Total Hrs.	Hrs / Wk	Hrs / Wk
Philippine Literature	3	0	3	54						
Fundamental Skills and Word Processing	3	0	3	54						
Human Anatomy & Physiology	3	2	5	162						
Philosophy of Man	3	0	3	54						
Philippine Government & Constitution	3	0	3	54						



Radiologic Physics, Equipment & Maintenance II	2	1	3	90					
Radiographic Technique and Film Analysis I	2	1	3	90					
Physical Education III (Wall climbing, Rapelling and Emergency Management)	2	0	2	36					
Philippine History	3	0	3	54					
Total	24	4	28	648		TVET TOTAL			

2nd SEMESTER

SUBJECT	LEC	LAB	UNITS	Hrs / Sem	Prereq	TVET modules			Theory	Practicum
						Units of Competency		Nominal Duration	Total Hrs.	Hrs / Wk
Sociology and Anthropology	3	0	3	54						
Health Economics w/ Taxation & Land Reform	3	0	3	54						
Community and Public Health	3	2	5	162		COMMON Implement and monitor infection control policies and procedures				Integrated in community and public health- RLE
						BASIC Practice occupational health and safety procedures				
						CORE Handle waste in a health care environment				
Medical Terminology	2	0	2	36						
Radiographic Technique and Film Analysis – 2	3	1	4	108						
Patient Care Management	2	1	3	90		COMMON Maintain high standard of patient service				Integrated in laboratory work And Practicum
						CORE Assist in transporting patients				
						CORE Assist in client/patient mobility				
						CORE Collect and maintain linen stocks at end location user				
						CORE Prepare and maintain beds				
Departmental Administration, Ethics and Jurisprudence	3	0	3	54						
Physical Education -4	2	0	2	36						
Total	21	4	25	594						

Health Care Services NC III will be issued by TESDA upon passing the certification process



**MODEL EMBEDMENT OF MEDICAL TRANSCRIPTION NC II IN THE LEP BACHELOR OF
SCIENCE IN RADIOLOGIC TECHNOLOGY**

**FIRST YEAR
1st SEMESTER**

SUBJECT	LEC	LAB	UNITS	Hrs / Sem	Prereq	TVET modules			Theory	Practicum
						Units of Competency	Nominal Duration	Total Hrs.	Hrs / Wk	Hrs / Wk
Grammar & Composition 1	3	0	3	54		BASIC Participation in workplace communication				
Sining Ng Pakikipagtalastasan	3	0	3	54						
General Psychology	3	0	3	54						
College Algebra	3	0	3	54						
College Physics	3	2	5	162						
Introduction to Radiologic Technology w/ STS	3	0	3	54		BASIC Practice career professionalism				
Physical Education – 1	2	0	2	36						
NSTP-CWTS-1	3	0	3	54		BASIC Work in team environment				
TOTAL	23	2	25	522		TVET Total :				

2nd SEMESTER

SUBJECT	LEC	LAB	UNITS	Hrs / Sem	Prereq	TVET modules			Theory	Practicum
						Units of Competency	Nominal Duration	Total Hrs.	Hrs / week	Hrs / week
Grammar and Composition II	3	0	3	54						
Pagbasa at Pagsulat	3	0	3	54						
Logic	3	0	3	54						
General Zoology	3	2	5	162						
Life and Works of Rizal	3	0	3	54						
Radiologic Physics, Equipment and Maintenance-1	2	1	3	90						
Physical Education-2	2	0	2	36						
NSTP-CWTS-2	3	0	3	54						
TOTAL	24	6	25	558						

**SECOND YEAR
1st SEMESTER**

SUBJECT	LEC	LAB	UNITS	Hrs / Sem	Prereq	TVET modules			Theory	Practicum
						Units of Competency	Nominal Duration	Total Hrs.	Hrs / Wk	Hrs / Wk
Philippine Literature	3	0	3	54						



Fundamental Skills and Word Processing	3	0	3	54		COMMON Perform computer operations					Training integration
						CORE Use business technology					
Human Anatomy & Physiology	3	2	5	162		CORE Use medical terminology to carry out task					
Philosophy of Man	3	0	3	54							
Philippine Government & Constitution	3	0	3	54							
Radiologic Physics, Equipment & Maintenance II	2	1	3	90							
Radiographic Technique and Film Analysis I	2	1	3	90							
Physical Education III (Wall climbing, Rapelling and Emergency Management)	2	0	2	36							
Philippine History	3	0	3	54							
Total	21	4	25	756							

2nd SEMESTER

SUBJECT	LEC	LAB	UNITS	Hrs / Sem	Prereq	TVET modules			Theory Hrs / Wk	Practicum Hrs / Wk
						Units of Competency	Nominal Duration	Total Hrs.		
Sociology and Anthropology	3	0	3	54						
Health Economics w/ Taxation & Land Reform	3	0	3	54						
Community and Public Health	3	2	5	162		BASIC Practice occupational health and safety procedures				
Medical Terminology	2	0	2	36		CORE Use medical terminology to carry out task				Training integration
						CORE Produce text from audio transcription				
Radiographic Technique and Film Analysis – 2	3	1	4	108						
Patient Care Management	2	1	3	90						
Departmental Administration, Ethics and Jurisprudence	3	0	3	54		COMMON Apply quality standards				
Physical Education -4	2	0	2	36						
Total	21	4	25	594						

Medical Transcription NC II will be issued by TESDA upon passing the certification process.



MODEL EMBEDMENT OF TVET COMPETENCIES/ QUALIFICATIONS ON THE LADDERIZED BACHELOR OF SCIENCE FOR RADIOLOGIC TECHNOLOGY

THIRD YEAR

1st Semester

SUBJECT	LEC	LAB	UNITS	Hrs / Sem	Prereq
Basic Statistics	3	0	3		
Radiographic Positioning and Radiologic Procedures	4	3	7		
Radiologic Contrast Examinations	2	1	3		
Radiologybiologyand Radiation Protection	3	0	3		
Ultrasonography	3	0	3		
Department Administration, Ethics and Jurisprudence	3	0	3		
Venipuncture	2	0	2		
Total :	20	4	24		

2nd Semester

SUBJECT	LEC	LAB	UNITS	Hrs / Sem	Prereq
Radiologic Pathology	3	0	3		
Computerized Tomograph Scan	3	0	3		
Magnetic Resonance Imaging	3	0	3		
Interventional Radiology	3	0	3		
Nuclear Medicine	3	0	3		
Radiotherapy	3	0	3		
Quality Assurance and Quality Control	2	1	3		
Elements of Research	3	0	3		
Total :	23	1	24		

FOURTH YEAR

1st Semester

SUBJECT	LEC	LAB	UNITS	Hrs / Sem	Prereq
Clinical Education I (<i>5 ½ months hospital training (22 weeks – 1,056 hrs)</i>)	0	0	18		
Research Writing	0	0	3		
Total :	0	0	21		

2nd Semester

SUBJECT	LEC	LAB	UNITS	Hrs / Sem	Prereq
Clinical Education II (<i>5 ½ months hospital training (22 weeks – 1,056 hrs)</i>)	0	0	18		
Seminar	0	0	3		
Total :	0	0	21		

