

Joint Review Committee on Education in Radiologic Technology 20 N. Wacker Drive, Suite 2850 Chicago, IL 60606-3182 312.704.5300 www.jrcert.org

LIMITED X-RAY MACHINE OPERATOR CURRICULUM ANALYSIS GRID

I. General Information	
Program Name	
JRCERT Program Number	
Date	

DIRECTIONS: Determine the course(s) in which each of the following content area is covered and enter the course number(s) and/or title(s). For guidance in what should be covered for each content area, please refer to the Radiography Curriculum (2022) published by the American Society of Radiologic Technologists.

II. Clinical Practice	
Professional Curriculum	Program Course(s)
Clinical Practice	
Procedural Performance	
Clinical Competency	

III. Digital Image Acquisition and Display	
Program Course(s)	

IV. Fundamentals, Ethics and Laws of Health Care	
Professional Curriculum	Program Course(s)
The Health Science Professions	
The Health Care Environment	
Facility Organization	
Radiology Organization	
Accreditation	
Regulatory Agencies	

Professional Credentialing	
Professional Organizations	
Professional Development	
Ethics in Health Care	
Ethical Issues in Health Care	
Legal Responsibilities	
Patient Consent	

V. Human Anatomy and Physiology	
Professional Curriculum	Program Course(s)
Anatomical Nomenclature	
Landmarks and Underlying Anatomy	
Skeletal System	
Cardiovascular System	
Respiratory System	
Abdomen	
Muscular System – Types, Characteristics and Functions	
Nervous System	

VI. Image Production and Analysis	
Program Course(s)	

VII. Imaging Equipment and Radiation Production	
Professional Curriculum	Program Course(s)
X-ray Circuit	
Radiographic Equipment	
Diagnostic X-ray Tubes	
Quality Control	
Structure of the Atom	
Nature of Radiation	
X-ray Production	
Interaction of Photons With Matter	

VIII. Medical Terminology	
Professional Curriculum	Program Course(s)
The Word-building Process	
Medical Abbreviations and Symbols	
Radiologic Technology Procedures and Terminology	
Understanding Orders, Requests and Diagnostic Reports	

IX. Patient Care in Radiologic Sciences	
Program Course(s)	

X. Radiographic Anatomy, Procedures and Pathology	
Professional Curriculum	Program Course(s)
Standard Terminology for Positioning and Projection	
Evaluation of Radiographic Orders	
Positioning Considerations for Routine Radiographic Procedures	

Patient Communication	
Pathology	
Relevance of Pathology to Radiographic Procedures	

XI. Radiation Protection and Radiobiology Program Course(s) **Professional Curriculum** Introduction Système International d'Unités (SI Units) of Measurement Occupational dose Surveys, Regulatory/Advisory Agencies and Regulations Personnel Monitoring **Application Patient Protection** Elements of Radiation Biology Radiation Energy Transfer **Radiation Effects** Radiosensitivity and Response