

RTCC Recommended changes to Section 30421

July 2008 RTCC subcommittee on CRT schools recommendations for proposed changes to: 17 CCR § 30421

Cal. Admin. Code tit. 17, § 30421

TITLE 17. PUBLIC HEALTH
DIVISION 1. STATE DEPARTMENT OF HEALTH SERVICES
CHAPTER 5. SANITATION (ENVIRONMENTAL)
SUBCHAPTER 4.5. RADIOLOGIC TECHNOLOGY
GROUP 2. TRAINING OF STUDENTS OF RADIOLOGIC TECHNOLOGY
ARTICLE 2. RADIOLOGIC TECHNOLOGY SCHOOLS
§ 30421. Diagnostic Radiologic Technology Schools.

Proposed revisions to current regulations are in italics and strike through (17 CCR § 30421); Note all change justifications are in the attached Proposed Provision Change Justification for Cal. Admin. Code tit. 17, § 30421.

§ 30421. Diagnostic Radiologic Technology Schools.

- ~~(a) In order to be approved by the Department as a diagnostic radiologic technology school, a training facility shall include in its curriculum all requirements of subsections (b) through (g), inclusive, of this section.~~
- (a) In order to be approved by the Department as a diagnostic radiologic technology school, a training facility shall include in its curriculum all requirements of subsections (b) through (g), inclusive, of this section. master plan of education all the following educational standard requirements of subsections (b) through (k), inclusive, of this section.*
- ~~(b) The course of study shall meet at least the following:~~
- ~~(1) 520 hours of formal classroom instruction.~~
 - ~~(2) 50 hours of general radiographic laboratory.~~
 - ~~(3) 75 hours of positioning laboratory.~~
 - ~~(4) 25 hours of radiation protection laboratory.~~
 - ~~(5) 1850 hours of supervised clinical education.~~
- (1850 hours of clinical was moved to standard 2)*
- (b) Standard One - Program Mission, Goals, Student Learning Outcomes and Effectiveness:*
- (1) The program, in support of its mission and goals, shall develop and implement a system of planning and evaluation to determine its effectiveness and use the results for program improvement. Benchmarks for the measurement of outcomes shall include at a minimum:*
- Student Learning Outcomes:***
- (A) Communication skills;*
 - (B) Problem solving skills and critical thinking;*
 - (C) Clinical performance and clinical competence;*
 - (D) Professional development and growth.*
- Program Outcomes:***
- (A) Graduate satisfaction;*
 - (B) Employer satisfaction;*
 - (C) Program completion rate*
 - (D) Program passrates for CRT(R) certificate.*
- ~~(c) The classroom instruction shall include at least the following:~~

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<i>Subject</i>	<i>Hours of Instruction</i>
(1) Radiation protection pertaining to radiography.....	50
(2) Introduction to radiologic technology.....	5
(3) Professional ethics.....	5
(4) Anatomy and physiology.....	50
(5) Medical terminology.....	15
(6) Physics and electricity.....	40
(7) Principles of radiographic exposure.....	30
(8) Film/image receptor processing (theory and equipment).....	10
(9) Survey of diseases.....	10
(10) Nursing procedures.....	15
(11) Pediatric radiography.....	10
(12) Procedures involving contrast media.....	80
(13) Departmental administrative and office procedures.....	5
(14) Equipment and accessory care.....	5
(15) Radiographic positioning.....	70
(16) Film critique.....	80
(17) Senior student seminar.....	20
(18) Digital radiologic technology as specified in section 304102.....	20

- (d) In the general radiographic laboratory each student shall perform experiments, using phantoms, to illustrate at least the following:
- (1) X-ray output (effects of kilovoltage, milliamperage, filtration, distance, and heel effect).
 - (2) Radiographic contrast— subject and film (kilovoltage, filtration, scatter radiation, film type and speed, exposure, processing).
 - (3) Control of scatter radiation (collimation, field size accuracy, X-ray/light field congruence, grids, air gap technique).
 - (4) Intensifying screens (type and speed, screen-film contact, cassette types).
 - (5) Image sharpness (penumbra, inverse square law, source and subject-film distance, size of the focal spot, motion, magnification and distortion).
 - (6) Quality control experiments.
- (e) In the positioning laboratory each student shall:
- (1) Position simulated patients for routine X-ray procedures to illustrate different patient care situations.
 - (2) Perform on phantoms X-ray procedures to illustrate the selection of exposure factors, proper positioning, film and other image receptor processing/developing techniques.
- (f) In the radiation protection laboratory each student shall perform experiments to illustrate at least all of the following:
- (1) Methods of reducing dose per exposure to patient (limiting exposure field, use of filters, optimum kilovoltage techniques, film-intensifying screen combinations, gonadal shielding, source-film distance).
 - (2) Reduction of dose to personnel (shielding, such as X-ray tube housing and primary protective barriers, protection against secondary or scatter radiation).
 - (3) Safe practice for protection of personnel (monitoring, use of protective shielding and distance in portable work, use of protective clothing).
- (g) In the supervised clinical education each student shall perform or assist in the performance of not less than the following number of radiographic procedures:

<i>Procedures</i>	<i>Number</i>
(1) Chest.....	200
(2) Bony skeleton.....	400
(3) Gastrointestinal and genitourinary.....	200
(4) Vascular and contrast studies.....	50
(5) Special studies and X-ray imaging modalities.....	50
(6) Bedside and surgical.....	50

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- (c) *Standard Two – Curriculum: (replaces c, d, e, f, and g of 30421)*
- (1) *Shall follow the current American Society of Radiologic Technologists (ASRT) Radiography Curriculum guide, and/or follow the curricular specifications of the American Registry of Radiologic Technologist (ARRT) in preparing students to practice in the professional discipline.*
 - (2) *The program shall provide a well-structured, competency based curriculum that follows the ARRT clinical education requirements.*
 - (3) *The course of study shall meet at least 1850 hours of supervised clinical education.*
 - (4) *The course of study shall meet at least 20 hours of Digital radiologic technology as specified in Section 304102.*
 - (5) *Shall promote professional values, life-long learning, and competency in critical thinking and problem solving skills.*
 - (6) *The program shall have a curriculum that reflects assessment of affective, cognitive, and psychomotor domains.*
- (d) *Standard Three – Faculty Qualifications and Responsibilities:*
- (1) *The program shall have sufficient qualified faculty and staff with delineated responsibilities to support the program's mission and goals.*
 - (2) *The Program Director shall have a Masters or higher degree from an accredited college or university, a minimum of three years experience in Radiologic Technology.*
 - (3) *A Full time clinical coordinator shall have a Bachelors degree and two years full-time experience in Radiologic Technology. A clinical coordinator shall be identified when the program has more than 30 students or for every six clinical education sites approved by the CDPH.*
 - (4) *Clinical Instructors shall hold a CRT(R) in good standing and two years experience in Radiologic Technology.*
 - (5) *For every 16 students enrolled, there shall be one designated full-time or full-time equivalent qualified faculty/clinical coordinator.*
 - (6) *For every 8 students engaged in an energized lab course there shall be one designated full-time or full-time equivalent qualified faculty.*
- (e) *Standard Four – Administrative Organization:*
- (1) *The program shall demonstrate that the organization has adequate administrative support to assure the effectiveness of the educational process. The program shall have sufficient resources for staff support to execute the program master plan.*
 - (2) *The program shall assure an appropriate relationship exists between program length and the subject matter taught and the objectives for the degree or credential offered.*
 - (3) *A sufficient period of time shall be set aside, by the institution, exclusively for the use by the director or his or her designee in the administration of the program.*
 - (4) *The program shall establish and maintain affiliation agreements with clinical education settings as approved by the CDPH.*
 - a. *In order for a CDPH-approved California RT School to utilize a federal government facility as a clinical training affiliate, that affiliate must voluntarily agree to:*
 - i. *register with CDPH machines used in student training (US FDA installation certification (report of assembly) does not meet this requirement),*
 - ii. *allow CDPH access to clinical training affiliate sites for unannounced inspections to document compliance with state laws,*
 - iii. *have Supervisor & Operator permits or certificates issued by CDPH for each licentiate providing supervision of the student(s), and*
 - iv. *have appropriate certificates or permits issued by CDPH for each Radiologic technologist providing supervision of the student(s).*

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- (5) *The program shall demonstrate assurance that the clinical staff at the clinical affiliates shall be certified and adequate in number to ensure appropriate clinical supervision and consumer protection.*
- (f) *Standard Five – Fiscal Stability*
The program and the sponsoring institution shall have adequate financial resources, demonstrate financial stability to meet the mission and goals of the program.
- (g) *Standard Six – Facilities, Learning Resources and Student Support Services:*
(1) *The program sufficient learning resources, learning environments (classrooms and equipment), and student services to support its mission and goals.*
(2) *The program shall ensure it has enough clinical affiliate sites to provide students with the variety and volume of procedures needed for competency achievement.*
(3) *The program reviews, evaluates, and maintains learning resources to assure the achievement of student learning outcomes and program goals, including current state radiation laws, regulations and standards, as well as applicable federal and international publications.*
- (h) *Standard Seven – Students:*
(1) *The program's and sponsoring institution's policies and procedures shall serve and protect the rights, health and educational opportunities of all students.*
a. The program shall have a procedure for resolving student grievances.
b. Policies and procedures shall safeguard the security and confidentiality of student records.
(2) *The program shall provide student academic and clinical activities that are educationally valid and support attainment of student learning outcomes.*
(3) *Policies and procedures shall safeguard the health and safety of students associated with educational activities in regard to workplace hazards, harassment, communicable diseases, and substance abuse shall be implemented.*
- (i) *Standard Eight – Consumer Protection and Radiation Safety Practices:*
(1) *Program policies and procedures, and all of its clinical affiliates shall be in compliance with federal and state radiation protection laws.*
(2) *Program Policies and Procedures shall ensure safe practices in the delivery of health care services to patients under the supervision of qualified personnel.*
(3) *Program Policies and Procedures shall ensure patient confidentiality in all aspects of the educational process.*
- (j) *Standard Nine - Program Ethics and Integrity:*
(1) *The program shall demonstrate integrity in representations to communities of interest and the public, in pursuit of educational excellence, and in treatment of and respect for students, faculty, and staff.*
a. The program shall publishes statements accurately reflecting the program.
- (k) Each training facility approved as a diagnostic radiologic technologist school shall meet and maintain all standards set forth in this section. Failure of an applicant to meet any of these standards shall be grounds for denial of approval. Failure of an approved diagnostic radiologic technology school to maintain any of these standards shall be grounds for suspension or revocation of approval. (section k has no change)

Note: Authority cited: Sections 114870, 131050, 131051 and 131200, Health and Safety Code. Reference: Sections 107045 and 114870(d), Health and Safety Code.

HISTORY

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1. Amendment of subsections (b)(1), new subsection (c)(18) and amendment of Note filed 2-14-2008; operative 3-15-2008 (Register 2008, No. 7)