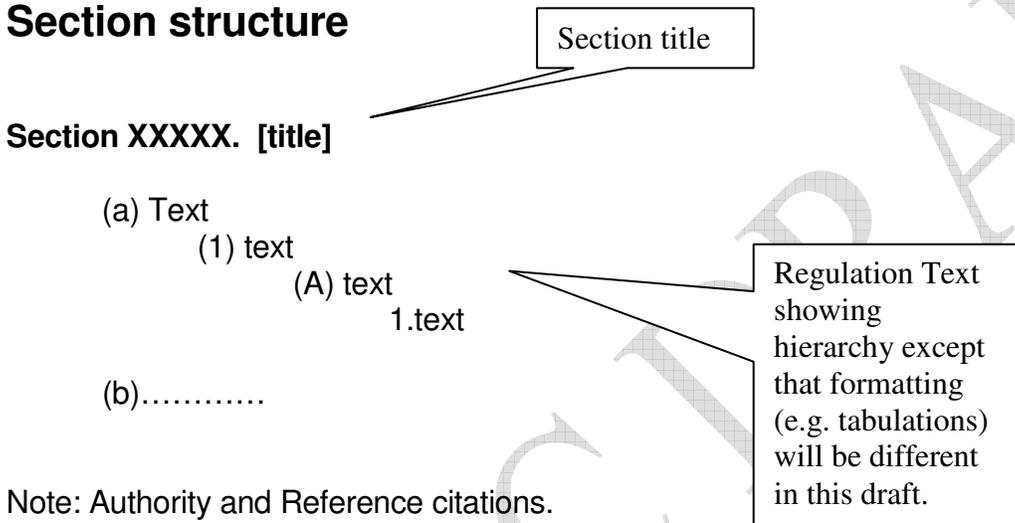


## ALL PROPOSALS SUBJECT TO CHANGE

- ~~Strike-out text~~ = existing text proposed to be repealed.
- Underlined text = proposed text to be adopted.
- Not underlined & not struck out = existing regulation.

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### Section structure



**California Code of Regulations  
Title 17. Public Health  
Division 1. Department of Health Services  
Chapter 5. Sanitation  
Subchapter 4.5. Radiologic Technology  
Article 1. Definitions**

**§ 30400. Definitions.**

(a) As used in this subchapter:

(1) "Act" means the Radiologic Technology Act as defined in section 27 of the Health and Safety Code.

(2) "Affiliated clinical site" means a clinical site approved by the Department pursuant to section 30412 or 30414 in which students perform radiologic technology for purposes of establishing eligibility for obtaining a certificate issued pursuant to sections 30440 or 30455.1, or a limited permit issued pursuant to section 30444.

(3) "Affiliation agreement" means a formal, written understanding between an approved school and a clinical site.

(4) "Approved continuing education credit" means one hour of instruction received in subjects related to the application of X-ray to the human body and accepted for purposes of credentialing, assigning professional status or certification by the:

(A) American Registry of Radiologic Technologists;

(B) Medical Board of California;

(C) Osteopathic Medical Board of California;

(D) California Board of Chiropractic Examiners;

(E) Board of Podiatric Medicine; or

(F) Board of Dental Examiners.

(5) "Approved school" means a radiologic technology certification school, limited permit X-ray technician school, mammographic radiologic technology school, or a radiologic technologist fluoroscopy permit school.

(6) "Approval to operate" or "approval" means the authorization pursuant to section 30412 to offer an educational program in radiologic technology meeting the requirements of this subchapter, as well as the written document issued to an entity signifying its approval to operate.

(7) "Approved to operate" or "approved" means that an entity has received authorization pursuant to section 30412 to offer an educational program in radiologic technology meeting the requirements of this subchapter.

(8) "Certified diagnostic radiologic technologist" means a CRT who holds a current and valid diagnostic radiologic technology certificate issued pursuant to section 30440(b).

(9) "Certified radiologic technologist," for purposes of this subchapter, means any person other than a licentiate of the healing arts performing radiologic technology who possesses a certificate issued pursuant to section 30440.

(10) "Certified supervisor and operator," for purposes of this subchapter, means a licentiate of the healing arts who possesses, as issued pursuant to section 30466, a current and valid:

(A) Radiology supervisor and operator certificate;

(B) Radiography supervisor and operator permit;

(C) Fluoroscopy supervisor and operator permit;

(D) Dermatology supervisor and operator permit; or

(E) X-ray bone densitometry supervisor and operator permit.

(11) "Certified therapeutic radiologic technologist" means a CRT who holds a current and valid therapeutic radiologic technology certificate issued pursuant to section 30440(c).

(12) "Clinical coordinator" means that individual who is responsible for those items specified in section 30419 and meets the requirements of section 30418.

(12) "Clinical site" means a hospital, outpatient department, clinic, radiology practice, an office of a physician and surgeon, podiatrist or chiropractor, or any other place or building in which a person conducts radiologic technology.

(13) "Credentialing examination pass rate" means the number of graduates who, on the first attempt, pass the required certification or permitting examinations compared with the number of graduates who take the required examinations.

(14) "CRT" means a certified radiologic technologist.

(15) "Department" means the California Department of Public Health.

(16) "Diagnostic radiologic technology" means the application of X-rays on human beings for diagnostic purposes.

(17) "Digital radiography" means radiography wherein the image is visualized through electronic means (e.g. computed radiography, direct digital radiography, direct image capture,

scanned projection radiography) but does not include fluoroscopy or the digitization of a radiograph or film.

(18) "Direct oversight" means that a qualified practitioner is physically present to observe, and correct as needed, the performance of a student who is performing the procedure.

(19) "Educational program" means a planned sequence composed of a single course or module, or set of related courses or modules, that provides the education, training, skills, and experience leading to the award of a certificate or diploma issued pursuant to section 30437.

(20) "Film-screen radiography" means radiography wherein the image is visualized through chemical processing (e.g. fluorescent screens, X-ray film, radiographic film) but does not include digitization of a radiograph or film.

(21) "Fluoroscopy" means a technique for obtaining, continuously or periodically, a sequence of X-ray patterns and presenting them directly, or through a transfer and optional processing, simultaneously and continuously as visible images.

(22) "Indirect oversight" means that a qualified practitioner is physically present in the facility and available within the facility while the student is performing the procedure.

(23) "Lead supervising licentiate" means that supervising licentiate, designated by the clinical site, who ensures compliance with section 30417 and the clinical site's affiliation agreement.

(24) "Licentiate of the healing arts," for purposes of this subchapter, means any licensed physician and surgeon, licensed podiatrist, or licensed chiropractor.

(25) "Limited permit," for purposes of this subchapter, means authorization for the holder to conduct radiologic technology limited to the permit's scope as specified in section 30443 and subject to the restrictions in section 30447.

(26) "Limited permit X-ray technician" means an individual who holds a current and valid limited permit issued pursuant to section 30444.

(27) "Limited permit X-ray technician school" means an entity approved pursuant to section 30412 that provides to individuals an educational program for establishing eligibility for a limited permit in any category specified in section 30442.

(28) "Mammogram" means an X-ray image of the human breast.

(29) "Mammography" means the procedure for creating a mammogram.

(30) "Mammographic examination" means the performance of mammography on a human being.

(31) "Mammographic radiologic technology" means the performance of radiologic technology for purposes of obtaining a mammogram.

(32) "Mammographic radiologic technology certification school" means an entity approved pursuant to section 30412 that provides to individuals an educational program for establishing eligibility for a mammographic radiologic technology certificate issued pursuant to section 30455.1.

(33) "Outside of Department jurisdiction" means any location within the State that is not subject to the laws and regulations of the Department such as federal and tribal lands.

(34) "Program director" means that individual who has the overall responsibility for the educational program and for those items specified in section 30419 and meets the requirements of section 30418.

(35) "Qualified practitioner" means any of the following persons acting within the scope of the person's certificate or permit:

(A) A certified supervisor and operator; or

(B) Any CRT or XT who has at least two years of radiologic technology experience.

(36) "Radiography" means the procedure for creating an X-ray image, and includes one or more of the following:

(A) Positioning the patient;

(B) Selecting exposure factors; or

(C) Exposing the patient and the recording medium to X-rays.

(37) "Radiologic technology" means the application of X-rays on human beings for diagnostic or therapeutic purposes.

(38) "Radiologic technology certification school" means an entity approved pursuant to section 30412 that provides to individuals an educational program for establishing eligibility for a certificate in:

(A) Diagnostic Radiologic Technology; or

(B) Therapeutic Radiologic Technology.

(39) "Radiologic technologist fluoroscopy permit school" means an entity approved pursuant to section 30412 that provides to individuals an educational program for establishing eligibility for a radiologic technologist fluoroscopy permit pursuant to section 30451.

(40) "Supervising licentiate" means a certified supervisor and operator who is responsible for supervision of X-ray machine use at an affiliated clinical site.

(41) "Supervision" means responsibility for, and control of, quality, radiation safety, and

technical aspects of all X-ray examinations and procedures.

(42) "Therapeutic radiologic technology" means the performance of radiologic technology for therapeutic purposes.

(43) "X-ray bone densitometry" means a radiologic examination of all or part of the skeleton utilizing X-rays from an X-ray source which is mechanically joined to a detector for scanning all or part of the skeleton under computer control.

(44) "XT" means a limited permit X-ray technician.

Note: Authority cited: Sections 114870(a) and 131200, Health and Safety Code. Reference: Sections 106990, 114850, 114870, 131050, 131051 and 131052, Health and Safety Code.

RTCC DRAFT

Existing sections containing  
defined terms will be repealed  
and placed into section 30400.

**§ 30403. Requirements for Continuing Education and Performance of Mammographic Examinations.**

(a) Each individual certified or permitted pursuant to sections 30440, 30444, 30451, and/or 30455.1 shall, in the two years immediately preceding the expiration date of the certificate or permit, earn 24 approved continuing education credits, four of which shall be in digital radiography. Any credits required in subsections (a)(1) through (3) may be applied to digital radiography credits if applicable. If an individual holds:

(1) A mammographic radiologic technology certificate issued pursuant to section 30455.1, ten of the 24 credits shall be in mammography;

(2) A radiologic technologist fluoroscopy permit issued pursuant to section 30451, four of the required 24 credits shall be in radiation safety for the clinical uses of fluoroscopy; or

(3) Both authorizations specified in subsections (a)(1) and (a)(2), of the 24 required credits, 10 shall be in mammography and four in radiation safety for the clinical uses of fluoroscopy.

(b) Each individual certified or permitted pursuant to section 30466 shall, in the two years immediately preceding the expiration date of the certificate or permit, earn 10 approved continuing education credits. If an individual holds a fluoroscopy supervisor and operator permit, four of the 10 credits shall be in radiation safety for the clinical uses of fluoroscopy.

~~(a) Each individual certified or permitted pursuant to sections 30440, 30444, and/or 30451 shall, in the two years immediately preceding the expiration date of the certificate or permit, earn 24 approved continuing education credits, except that each individual who is certified pursuant to sections 30440(a) and 30455.1 shall meet the requirements of subsection (c).~~

~~(b) Each individual certified or permitted pursuant to sections 30466 and 30467 shall, in the two years immediately preceding the expiration date of the certificate or permit, earn 10 approved continuing education credits.~~

~~(c) Each individual certified pursuant to sections 30440(a) and 30455.1 shall, in the two years immediately preceding the expiration date of the certificate or permit:~~

- ~~(1) Earn 24 approved continuing education credits, 10 of which shall be in mammography; and  
(2) Perform at least 200 mammographic examinations.~~

~~(d) The two year period referred to in subsections (a), (b) and (c) and in section 30403.5 shall begin on the expiration date of the certificate or permit:  
(1) In the year 2001 for individuals with a certificate or permit that ends in an odd number; and  
(2) In the year 2002 for individuals with a certificate or permit that ends in an even number.~~

Note: Authority cited: Sections ~~100275 and 114870(a) and 131200~~, Health and Safety Code.  
Reference: Sections 106965, 106995, 107015, 107070, 107110, 114840, 114845, 114870(b), (c), ~~and (e), and (f), 131050, 131051 and 131052~~, Health and Safety Code.

### **§ 30403.8. Recordkeeping Requirement.**

Each individual certified or permitted pursuant to this subchapter shall maintain the ~~document(s)~~ documents that evidence the individual having earned approved continuing education credits ~~and/or completing mammographic examinations for five~~ four years following the dates the credits were earned ~~and/or the mammographic examinations were completed~~. Such ~~document(s)~~ documents shall be made available to the Department upon request.

NOTE: Authority cited: Sections ~~100275 and 114870(a) and 131200~~, Health and Safety Code.  
Reference: Sections 106965, 106995, 107015, 107035, 107070, 107110, 114840, 114845, 114870(b), 114870(c) ~~and 114870(e)~~, 131050, 131051 and 131052, Health and Safety Code.

### **§ 30404. ~~Display~~ Providing Certificate or Permit to User.**

~~(a) An individual who holds a certificate or permit issued pursuant to this subchapter shall provide to the user, as defined in section 30100, or the person designated by the user to receive the document, a copy of the individual's certificate or permit. Any radiologic technologist who holds a certificate pursuant to Section 30440 or a fluoroscopy permit pursuant to Section 30451 shall prominently display such certificate or permit, or a copy thereof, at each place where the technologist performs activities which require a radiologic technologist certificate or permit.~~

~~(b) Any limited permittee who holds a permit pursuant to Section 30444 shall prominently display such permit, or a copy thereof, at each place where the limited permittee performs functions which require a limited permit.~~

~~(c) Any licensee who holds a certificate or permit pursuant to Sections 30466 or 30467 shall prominently display such certificate or permit, or a copy thereof, at each place of practice where the~~

~~licentiate performs activities which require a licentiate certificate or permit.~~

Note: Authority cited: Sections ~~25668~~114870(a) and 131200, Health and Safety Code. Reference: Sections 106985~~25671~~, and ~~114880~~25699, 131050, 131051 and 131052, Health and Safety Code.

### § 30405. Deadlines.

(a) For purposes of this subchapter:

(1) Submission Receipt of an application for any certificate, permit, or approval issued pursuant to this subchapter or information, documents, or fees supporting an application shall be deemed to occur on the date the application, information, documents, or fees are received by the Department; and

(2) An application is considered complete acceptable when all documents, information, or fees required to be submitted on or with the application have been received by the Department to determine if the applicant, and the applicant has passed required examinations;

(A) Is qualified for examination pursuant to sections, 30440, 30444, 30451, 30455.1, or 30466, as applicable;

(B) For an approval, meets the eligibility requirements pursuant to section 30412; or

(C) When submitting an application pursuant to section 30414, meets the eligibility requirements specified in that section; and

(3) Written notification by the Department to applicants shall be deemed to occur on the date the notifications are postmarked, or if electronically received, date of receipt as indicated on the electronic communication.

(b) For any certificate or permit issued pursuant to this subchapter, the Department shall notify the applicant of one of the following:

(1) Within 30 calendar days of receipt of an application, as specified in subsection (a)(1), that the application is not acceptable and what specific information, documentation or fee the applicant shall submit within 30 calendar days in order for the Department to consider the application acceptable as specified in subsection (a)(2)(A). The application shall be denied if the applicant, after a third request for specific information, documentation, or fees, fails to adequately address the Department's specific request for information, documentation, or fees that will make the application acceptable. The applicant may submit a new application unless otherwise subject to section 30407;

or

(2) Within 30 calendar days of receipt of an application, that the application is an acceptable application, as specified in subsection (a)(2)(A), and what examinations the applicant shall pass within:

(A) For applicants who are not licentiates of the healing arts, the examination limits specified in section 30407. In addition, the initial application shall be valid for one year and if the examination is not passed or taken by the first anniversary of the initially submitted application, a new application including the application fee, valid for one year, shall be submitted. If the examination is not passed or taken by the second anniversary, a new application including the application fee, shall be submitted;

or

(B) For applicants who are licentiates of the healing arts, one calendar year; or

(3) Within 45 calendar days of taking an examination, whether the applicant has met the applicable eligibility requirement.

~~(b) The Department shall notify the applicant, within 30 calendar days of submission of an application for any certificate or permit issued under this subchapter, of one of the following:~~

~~(1) That the application is complete and the Department's decision regarding the application.~~

~~(2) That the application is not accepted for filing and what specific information, documentation or fee the applicant shall submit within 30 calendar days in order for the Department to consider the application acceptable.~~

~~(3) That the application is acceptable and what examinations the applicant shall pass within 180 calendar days in order to complete the application.~~

(c) Within 90 calendar days of receipt of an application, as specified in subsection (a)(1), for an approval issued pursuant to this subchapter, the Department shall notify the applicant of one of the following:

(1) That the application is not acceptable or that the applicant did not passage of the inspection required pursuant to section 30412(b)(2) and what specific information, documentation or fee the applicant shall submit within 45 calendar days in order for the Department to consider the application acceptable as specified in subsection (a)(2)(B) or (C) or the inspection passed. The application shall be denied if the applicant, after a third request for specific information, documentation, or fees, fails to adequately address the Department's specific request for information, documentation, or fees that will make the application acceptable. The applicant may submit a new application; or

(2) That the application is acceptable and that, within an additional 30 calendar days, whether the applicant has met the applicable eligibility requirements.

(ed) The Department shall deem an application to have been withdrawn by any applicant who fails to:

(1) Pursuant to subsections (b)(1) or (c)(1), Within 30 calendar days of notification pursuant to subsection (b), respond to the Department's request to submit specific information, documentation or fee; or

(2) Within 180 calendar days of notification pursuant to subsection (b), Pursuant to subsection (b)(2), pass Department-approved examinations.

(de) Any applicant deemed by the Department to have withdrawn an application pursuant to paragraph (e) subsection (d) may reapply by submitting a new application unless otherwise subject to section 30407.

(e) ~~The Department's time periods for processing an application, from the date the initial application is received by the Department to the date the application is complete and the final decision is made regarding any certificate or permit issued under this subchapter are as follows:~~

- ~~(1) The median time for processing an application is 90 calendar days.~~
- ~~(2) The minimum time for processing an application is one day.~~
- ~~(3) The maximum time for processing an application is 240 calendar days.~~

Note: Authority cited: Section ~~25668(a)~~ 114870 and 131200, Health and Safety Code. Reference: Section 15376, Government Code Sections 107000, 107005, 107010, 131050, 131051 and 131052, Health and Safety Code.

### **§30407. Examination Limitation.**

Except for licentiates of the healing arts, if required to pass a written examination, the applicant shall be limited to three attempts to pass the examination. The three attempts shall be completed within the three year period commencing on the date the Department determines the applicant is qualified to take the examination. Individuals failing the third attempt or failing to pass the examination within the three-year period are no longer eligible for examination and may submit a new initial application only if the individual has re-entered and graduated from an appropriate approved school.

Note: Authority cited: Sections 114870(a) and 131200, Health and Safety Code. Reference: Sections 107000, 107005, 114870, 131050, 131051 and 131052, Health and Safety Code.

**§ 30411. General Provisions.**

(a) A person may not perform radiologic technology unless they meet the requirements of the Act.

(b) Unless approved pursuant to section 30412, a person may not offer, conduct, attempt to offer or conduct an educational program, or use any title or designation indicating or implying they are an approved school, approved to operate, or have an approval to operate.

(c) An approved school may not use a clinical site unless the site is approved as an affiliated clinical site pursuant to sections 30412 or 30414.

(d) A clinical site may be shared between approved schools only if approved pursuant to sections 30412 or 30414.

(e) An approved radiologic technology certification school accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT) shall be deemed to meet sections 30418 and 30421 or 30422, as applicable. If the school's accreditation becomes invalid for whatever reason, the school shall be subject to sections 30418 and 30421 or 30422, as applicable, and shall submit with the annual report, as specified in section 30413.5, documentation that the school meets sections 30418 and 30421 or 30422, as applicable.

(f) The number of students that begin an educational program for any certificate, limited permit category or combination of permit categories shall not exceed the sum of the total clinical capacity, as determined pursuant to section 30414(c), as applicable, for all affiliated clinical sites.

Note: Authority cited: Sections 114870(a) and 131200, Health and Safety Code. Reference: Sections 107000, 107005, 114870, 131050, 131051 and 131052, Health and Safety Code.

**§ 30412. Eligibility for and Issuance of Approval .**

(a) The Department may grant approval of the following types of approved schools:

(1) Diagnostic Radiologic Technology (RT) School;

(2) Therapeutic RT School;

(3) Mammographic RT School;

(4) Radiologic Technology Fluoroscopy Permit School; and

(5) Limited Permit X-ray Technician School.

(b) To be eligible for approval as an approved school an applicant shall:

(1) Submit to the Department the application described in section 30413; and

(2) Pass a Department inspection verifying the content and commitments made in the application and that each clinical site meets the applicable requirements.

(c) Approved schools shall be responsible for complying with any commitment made within the application material or correspondence. If a commitment is less restrictive than a regulation, the regulation shall apply. Failure to follow commitments shall be considered a reason pursuant to section 30436 to revoke, suspend, limit or condition any approval. An approved school may amend its commitments and upon Department approval implement those commitments provided the school submits an amendment request to the Department containing:

(1) The school's name and number as shown on the approval;

(2) The nature and scope of the request; and

(3) The reasons for the request and supporting justifications including any documents relied upon.

(d) Approval to operate shall be granted when the Department determines the applicant meets the requirements of the Act and this subchapter. Approval shall be valid for one year and may be re-validated pursuant to section 30413.5.

(e) Approved schools shall be subject to Department inspections, both announced and unannounced.

Note: Authority cited: Sections 114870 and 131200, Health and Safety Code. Reference: Section 107035, 107045, 107055, 114870, 131050, 131051 and 131052, Health and Safety Code.

**§ 30413. Complete School Approval Application.**

(a) An application submitted for compliance with section 30412 shall be considered acceptable if the application contains the following:

(1) The legal and institutional name of the applicant, the street and mailing addresses, email address, and the telephone numbers;

(2) The name, title, email address, and telephone number of the chief executive officer, dean, or department administrator and program director;

(3) The type of school approval pursuant to subsection (a) that is requested;

(4) For diagnostic or therapeutic RT school applicants, an attestation that curricula meet the requirements of sections 30421 or 30422, as applicable.

(5) Number of proposed students;

(6) Copies of the following;

(A) For each clinical site, the information required pursuant to section 30414(a)(2) through (a)(4);

(B) Faculty names and qualifications required pursuant to section 30418, applicable to the type of school approval requested.

(C) Radiation protection program required pursuant to section 30420;

(D) For limited permit X-ray technician schools, course titles, descriptions, subject matter and course hours corresponding to the curricula required pursuant to sections 30424, 30427, or 30427.2, as applicable.

(E) Example of the certificate or diploma to be issued to each student upon completion of the educational program as specified in section 30437(a)(1);

(7) The applicant's California taxpayer identification number;

(8) Signature and date of signature of each individual specified in subsection (a)(2); and

(9) The application fee required pursuant to [applicable section].

Note: Authority cited: Sections 114870 and 131200, Health and Safety Code. Reference: Sections 107035, 107045, 107055, 114870, 131050, 131051 and 131052, Health and Safety Code.

***THIS PROPOSED SECTION IS UNDER CONSTRUCTION AND IS PRESENTED FOR INFORMATION AND COMMENT; PROPOSAL IS NOT COMPLETE.***

**§ 30413.5. Maintenance of Approval – Annual Report.**

(a) To re-validate and maintain approval, an approved school shall submit at least 60 days prior to the anniversary of the approval an annual report **containing** the following:

(1) Attestation to the following:

(A) All changes required to be submitted pursuant to section 30435 were submitted as required;

(B) The Radiation protection program (RPP) required pursuant to section 30420 was annually reviewed as required.

(C) All affiliated clinical sites comply with applicable requirements;

(D) All affiliation agreements are current and up to date;

(E) Supervision of students at affiliated clinical sites is conducted in accordance with section 30417;

(F) The program director has verified each affiliated clinical sites has an RPP; and

(G) Faculty qualifications specified in section 30418 are documented and available for Department inspection; and

(8) The annual fee specified in section 30408.

(b) Failure to submit the annual report on or before the anniversary of the approval shall automatically suspend the approval. If the report is not submitted within six months following the date, the approval shall be canceled and shall not be subject to reinstatement.

A new initial application may be submitted pursuant to section 30412.

(c) The Department shall review the annual report only upon receipt of any required fees. If the report and fees are acceptable, approval shall be re-validated for one year.

Note: Authority: Sections 107045, 114870 and 131200, Health and Safety Code. Reference: Sections 107045, 107055, 114870, 131050, 131051 and 131052, Health and Safety Code.

**§ 30414. Approval as an Affiliated Clinical Site.**

(a) For a clinical site that has not been approved pursuant to section 30412 as an affiliated clinical site (ACS) to be eligible for approval as an ACS, an approved school shall submit an acceptable application consisting of:

(1) Name of requesting school and its school identification number as indicated on the Department's approval;

(2) For each clinical site, the following:

(A) Name, physical address, and telephone number of the proposed clinical site. If the clinical site is a Medi-Cal provider, the nine-digit Medi-Cal number used to bill for X-ray procedures;

(B) Radiation machine registration number of the clinical site as indicated on the certificate of registration issued to the site for purposes of Article 1 (commencing at section 30108), Group 1.5 of subchapter 4.0 of this chapter;

(C) Name of the lead supervising licentiate designated pursuant to section 30417(a) and the certificate or permit number as shown on the individual's certificate or permit issued by the Department;

(D) If the clinical site is to be used for compliance with the mammography training requirements of section 30421.5, the facility's certificate number as indicated on the Facility Accreditation Certificate issued pursuant to section 30315.22 or, if the facility is outside of Department jurisdiction, the facility's certificate number as indicated on the certificate issued by the U.S. Food and Drug Administration (FDA) pursuant to title 21, Code of Federal Regulations, section 900.11(b)(1);

(E) Total clinical capacity determined pursuant to subsection (c); and

(F) A copy of the affiliation agreement between the approved school and the clinical site containing the information required pursuant to section 30415; and

(3) For clinical sites outside of Department jurisdiction, an original letter on facility letterhead from the proposed clinical site verifying that the facility meets and voluntarily agrees to comply with the requirements of section 30416. The letter shall be signed by an individual who has the authority to commit the facility to comply with section 30416;

(4) Name and signature, and date of signature, of the school official or the school's program director; and

(5) The application fee specified in [applicable section].

(b) Approval as an ACS granted pursuant to this section shall be:

(1) Coterminous with the school's approval pursuant to section 30412(c); and

(2) Valid only if the school's approval remains valid.

(c) The following calculation shall be used to determine the total clinical capacity (TCC) of students allowed at a clinical site:

(1) For diagnostic radiologic technology (RT) schools and limited permit (LP) X-ray technician schools, except that an LP school teaching the category of dermatology X-ray therapy shall use the calculation in subsection (c)(2):

TCC = the lesser of A or B where:

A = total number of qualified practitioners, as defined in section 30400, at the clinical site who provide direct or indirect oversight.

B = total number of available physical resources determined as follows:

$B = R + RF + (M, M4 \text{ or } M5 \text{ as applicable}) + (S, S4 \text{ or } S5 \text{ as applicable}) + ER$

Where (do not double count rooms or units in the following categories):

R = One times the total number of radiography only rooms;

RF = One times the total number of radiography/fluoroscopy combination rooms;

M = 0.0 (if the site has no mobile units);

M4 = 0.5 (if the site has four or fewer mobile units (e.g. radiography or fluoroscopy));

M5 = 1 (if the site has five or more mobile units);

S = 0.0 (if the site has no fixed units in surgery suites);

S4 = 0.5 (if the site has four or fewer fixed units in surgery suites);

S5 = 1 (if the site has five or more fixed units in surgery suites); and

ER = One times the total number of fixed units in the emergency department, if applicable; and

(2) For therapeutic RT schools and LP schools teaching the dermatology X-ray therapy category:

TCC = the lesser of A or B where:

A = total number of qualified practitioners, as defined in section 30400, at the clinical site. Section 30417(e) shall be accounted for in determining the value of "A."

B = total number of available physical resources determined as follows:

$B = T + S + D + PC$

Where:

T = One times the total number of treatment rooms;

S = One times the total number of simulators, if applicable;

D = One times the total number of dosimetry units, if applicable; and

PC = One times the total number of patient care areas.

Note: Authority cited: Sections 114870(a) and 131200, Health and Safety Code. Reference: Section 114870, 131050, 131051 and 131052, Health and Safety Code.

### **§ 30415. Affiliation Agreement Content.**

An affiliation agreement shall, at a minimum:

(a) Identify each party by name including the clinical site's physical location and radiation machine facility registration number issued pursuant to Group 1.5 (commencing at section 30108) of subchapter 4.0.

(b) Identify whether the site is an affiliated clinical site of another approved school. If the clinical site is an affiliated clinical site of another approved school, the affiliation agreement shall identify all schools and clinical sites and acknowledge that students from a given school may not be on the premises of the clinical site at the same time as students from any other school.

(c) Identify the clinical site's lead supervising licentiate including the certificate or permit number as indicated on the individual's certificate or permit issued pursuant to section 30466.

(d) Contain a termination clause that at a minimum provides three months notice of termination or assurance that currently enrolled students assigned to the facility will be able to complete their clinical assignment at that facility.

(e) Indicate that the clinical site has a radiation protection program (RPP) as required by section 20.1101 of title 10, Code of Federal Regulations, part 20 as incorporated by reference in section 30253 of subchapter 4.0.

(f) State that the clinical site will provide a copy of the RPP to the approved school immediately upon the school's request.

(g) Include the name, signature, and date of signature of the:

(1) Person, including the person's title, who has the authority to commit the clinical site to the affiliation agreement;

- (2) Lead supervising licentiate. Signature of the lead supervising licentiate is acknowledgement that the individual accepts the responsibility specified in section 30417(b); and
- (3) Program director of the approved school.

Note: Authority cited: Sections 114870(a) and 131200, Health and Safety Code. Reference: Sections 107035, 114870, 115095, 131050, 131051 and 131052, Health and Safety Code.

### **§ 30416. Use of Clinical Sites Outside of Department Jurisdiction.**

(a) Upon Department approval pursuant to section 30412 or 30414, an approved school may use clinical sites outside of Department jurisdiction, if the school and the clinical site have an affiliation agreement in accordance with section 30415 and that each clinical site voluntarily agrees to:

(1) Register with the Department pursuant to section 30108 except that registration fees required pursuant to Group 1.5 (commencing at section 30108) of subchapter 4.0 of this chapter are waived;

(2) For each licensed physician providing supervision, provide to the approved school a copy of the physician's current and valid certificate or permit issued pursuant to section 30466;

(3) For each person acting as a qualified practitioner for direct or indirect oversight, provide to the approved school evidence that the person is a qualified practitioner as defined in section 30400. The clinical site shall provide to the approved school a copy of the qualified practitioner's certificate issued pursuant to section 30440 and 30455.1, as applicable, and if that practitioner performs any activity identified in section 30450, a copy of that practitioner's permit issued pursuant to sections 30451;

(4) Fulfill the requirements of section 30417; and

(5) Allow Department personnel access to the clinical site for announced or unannounced inspections to determine compliance with the Act or the Radiation Control Law (RCL) (Health and Safety Code section 114960 et. seq.), or the regulations adopted pursuant to the Act or RCL.

(b) Each approved school shall confirm that X-ray machines used and personnel involved in the education and training of students in clinical sites located outside of Department jurisdiction are in compliance with this subchapter and subchapter 4.0 (commencing at section 30100) of this chapter

and shall provide that documentation to the Department upon request.

Note: Authority cited: Sections 114870(a), 131051, 131052, 131055, and 131200, Health and Safety Code. Reference: Sections 107035, 114870(d), 115095, 131050, 131051 and 131052, Health and Safety Code.

### **§ 30417. Student Supervision at Clinical Sites.**

(a) Each clinical site used by the following approved schools shall designate in writing a lead supervising licentiate who possess the specified certificate or permit or meets the specified requirement:

(1) For diagnostic radiologic technology schools and limited permit X-ray technician schools, except as specified in subsection (a)(4), the lead supervising licentiate shall possess either a:

(A) Radiology supervisor and operator certificate; or

(B) Radiography supervisor and operator permit and, when applicable, a fluoroscopy supervisor and operator permit;

(2) For therapeutic radiologic technology schools, the lead supervising licentiate shall possess a radiology supervisor and operator certificate;

(3) For mammographic radiologic technology schools, the lead supervising licentiate shall meet the requirements of section 30315.50; or

(4) For limited permit X-ray technician school teaching the dermatology X-ray therapy permit category, the lead supervising licentiate shall possess either a:

(A) Radiology supervisor and operator certificate; or

(B) Dermatology supervisor and operator permit.

(b) The lead supervising licentiate shall:

(1) Be responsible for supervision of the student and for the acts and omissions of both the student and any other individual providing direct or indirect oversight to students;

(2) Ensure a supervising licentiate is available for consultation by both students and any other individuals providing direct or indirect oversight to students; and

(3) Be responsible for compliance with the clinical site's affiliation agreement.

(c) Except as provided in subsection (e), students of diagnostic radiologic technology, when operating X-ray equipment, shall be under direct oversight until the person providing direct oversight has determined that the student has achieved competency for the particular procedure. For students

in a radiologic technology certification school, the determination that the student has achieved competency shall be made by a qualified practitioner who is either a certified radiologic technologist, as applicable, or a supervising licentiate. For students in a limited permit X-ray technician school, the determination that the student has achieved competency shall be made by a supervising licentiate. Once a student has achieved competency, the student may then perform procedures under indirect oversight. However, students shall continue to be under direct oversight during performance of a repeat of any unsatisfactory radiograph or image. The competency determination shall be written, dated, and printed and signed by both the person providing direct oversight and the supervising licentiate. If both of those individuals are the same person, one signature is sufficient.

(d) Students of therapeutic radiologic technology and in approved limited permit X-ray technician school teaching the dermatology permit category, when operating X-ray equipment, shall be under direct oversight at all times.

(e) Students in an approved limited permit X-ray technician school teaching the category of X-ray bone densitometry, when operating X-ray equipment, shall be under direct oversight at all times.

(f) Persons providing direct or indirect oversight:

(1) May only act as a qualified practitioner for students within the scope of the certificate or permit that qualifies that person as a qualified practitioner; and

(2) Except for a certified supervisor and operator, shall have at least two years of radiologic technology experience.

(g) Approved schools shall maintain and make available to the department for inspection records of competency determinations and documentation of personnel qualifications.

Note: Authority cited: Sections 114870(a) and 131200, Health and Safety Code. Reference: Section 114870, 131050, 131051 and 131052, Health and Safety Code.

### **§ 30418. Faculty Requirements and Qualifications.**

(a) Radiologic technology (RT) certification schools shall have:

(1) A program director who:

(A) Except as specified in subsection (d), possesses at least a master's degree from an accredited college or university;

(B) Has at least three years of experience in diagnostic or therapeutic radiologic technology, as applicable; and

(C) Is a qualified practitioner who holds:

1. For diagnostic RT certification schools, either a radiology supervisor and operator certificate issued pursuant to section 30466, both a radiography supervisor and operator permit and, if required pursuant to section 30463, a fluoroscopy supervisor and operator permit issued pursuant to section 30466, or both a diagnostic radiologic technology certificate issued pursuant to section 30440 and, if required pursuant to section 30450, a fluoroscopic radiologic technologist permit; and

2. For therapeutic RT certification schools, either a radiology supervisor and operator certificate issued pursuant to section 30466, or a therapeutic radiologic technology certificate issued pursuant to section 30440; and

(2) If the school has more than 30 students or six or more affiliated clinical sites, at least one full-time equivalent clinical coordinator position. This position may be shared by no more than four individuals. Any person who functions as a clinical coordinator shall:

(A) Possesses at least a baccalaureate degree from an accredited college or university; and

(B) Be a qualified practitioner who meets subsection (a)(1)(C), as applicable.

(b) Limited permit X-ray technician schools shall have:

(1) A program director who:

(A) Except as specified in subsection (d), possesses at least a baccalaureate degree from an accredited college or university;

(B) Has at least three years of experience in diagnostic or therapeutic radiologic technology, as applicable;

(C) Except as provided in subsection (b)(1)(D), is a qualified practitioner who holds either a radiology supervisor and operator certificate issued pursuant to section 30466, a radiography supervisor and operator permit, a diagnostic radiologic technology certificate issued pursuant to section 30440, or a limited permit, issued pursuant to section 30444, in all permit categories the school is authorized to provide; and

(D) If a school is authorized to provide the educational program specified in section 30427, is a qualified practitioner who holds either a radiology supervisor and operator certificate, a dermatology supervisor and operator permit issued pursuant to section 30466, a therapeutic radiologic technology certificate issued pursuant to section 30440, or a limited permit in the permit category of dermatology

X-ray therapy issued pursuant section 30444; and

(2) A clinical coordinator determined as follows: If the school has fewer than six affiliated clinical sites, a clinical coordinator is not required. If the school has six affiliated clinical sites, at least one full-time equivalent (FTE) clinical coordinator position is required. If the school has more than six sites, the school shall have 0.5 FTE clinical coordinator position for every three sites (or fraction thereof) after the sixth site. One FTE position may be shared by no more than four individuals. Any person who functions as a clinical coordinator shall:

(A) Possesses at least an associate degree from an accredited college or university; and

(B) Be a qualified practitioner who meets subsection (b)(1)(C) or (D), as applicable.

(c) Except for when a clinical coordinator is not required pursuant to subsections (a)(2) or (b)(2), a person may not serve as both clinical coordinator and program director. The clinical coordinator may not serve as the program director.

(d) Individuals currently serving as program director as of *[regulation effective date to be inserted by Office of administrative Law]* need not meet the applicable degree requirement. Any individual beginning service as a program director thereafter shall meet the applicable degree requirement.

Note: Authority cited: Sections 114870(a) and 131200, Health and Safety Code. Reference: Sections 114870(a), 131050, 131051 and 131052, Health and Safety Code.

### **§ 30419. Program Director and Clinical Coordinator Responsibilities.**

(a) The program director shall be responsible for:

(1) Assuring effective program operations;

(2) Overseeing on-going program assessment;

(3) Participating in budget planning;

(4) Maintaining current knowledge of the professional discipline and educational methodologies through continuing professional development; and

(5) Assuming the leadership role in the continued development of the program.

(b) The clinical coordinator shall be responsible for:

(1) Correlating clinical education with didactic education;

(2) Evaluating students;

- (3) Participating in didactic and/or clinical instruction;
- (4) Supporting the program director to help assure effective program operation;
- (5) Coordinating clinical education and evaluates its effectiveness;
- (6) Participating in the assessment process;
- (7) Cooperating with the program director in periodic review and revision of clinical course materials;
- (8) Maintaining current knowledge of the discipline and educational methodologies through continuing professional development; and
- (9) Maintaining current knowledge of program policies, procedures, and student progress.

Note: Authority cited: Sections 114870(a) and 131200, Health and Safety Code. Reference: Sections 114870(a), 131050, 131051 and 131052, Health and Safety Code.

**§ 30420. Application Procedure. Radiation Protection Program.**

~~Applicants seeking approval of a school or a course of study in radiologic technology shall submit to the Department all of the following:~~

- ~~(a) An application on forms furnished by the Department.~~
- ~~(b) Documents which explain the nature and extent of education and training to be offered.~~
- ~~(c) Course descriptions, curricula plans, and study plans.~~

(a) Each approved school shall develop, document and implement a radiation protection program (RPP) commensurate with the scope and extent of the school's activities that will ensure compliance with subchapter 4.0 (commencing at section 30100) of this chapter. As part of the RPP, the school shall:

(1) Designate a faculty member as the school's radiation safety officer (RSO) and another faculty member to serve as the RSO's alternate. The program director shall document and maintained for Department inspection the acceptance by these designated persons to serve as RSO and alternate RSO. Qualifications of the RSO and alternate shall be documented and maintained for Department inspection. Responsibilities of the RSO shall be delineated by the school to include at least the following:

- (A) Reviewing the RPP content and implementation annually;
- (B) Ensuring the requirements of this section are met;
- (C) Reviewing all personnel monitoring dosimetry reports within 10 days of receipt to ensure

the occupational dose limits specified in subpart C of title 10, Code of Federal Regulations, Part 20 (10 CFR 20), incorporated by reference in section 30253, are not exceeded;

(D) Overseeing reporting of student accidents, incidents, or errors related to radiation safety;

(E) If the school possesses reportable sources of radiation, as defined in section 30100, ensuring compliance with the applicable requirements of subchapter 4.0 (commencing at section 30100) of this chapter for reportable sources of radiation;

(2) Monitor occupational radiation exposure to, and supply and require the use of personnel monitoring equipment, as defined in section 30100, by all students. To evaluate radiation protection practices of students and clinical site personnel and the integrity of radiation shielding, a student's exposure shall be correlated to the clinical site where the exposure was received;

(3) Ensure personnel monitoring equipment that require processing to determine the radiation dose are processed and evaluated by a dosimetry processor that meets section 20.1501(c) of 10 CFR 20 incorporated by reference in section 30253;

(4) Investigate, perform an analysis, and take corrective action to prevent future occurrences of radiation exposure to a student exceeding any of the following:

(A) Occupational dose limits specified in 10 CFR 20, subpart C, as incorporated by reference in section 30253; or

(B) Investigational levels established pursuant to subsection (b)(5);

(5) Establish investigational levels to monitor student radiation exposures that when exceeded, will initiate a review or investigation by the RSO. The methodology or reasons for the established levels and actions that will be taken by the RSO when the levels are exceeded shall be documented and maintained for inspection. The investigational levels and actions that will be taken by the RSO to maintain student exposure as low as reasonably achievable shall be documented and provided to students.

(6) Verify that each clinical site used by the school has an RPP as required by section 20.1101 of 10 CFR 20 incorporated by reference in section 30253. The school shall provide to the Department a copy of the clinical site's RPP upon request;

(7) Establish and implement written policies and procedures pertaining to pregnancy status of students in accordance with section 20.1208 of 10 CFR 20 incorporated by reference in section 30253. Policies and procedures developed to comply with this provision shall:

(A) Be followed by the school;

(B) Be published and made known to accepted and enrolled students;

(C) Include a notice of voluntary disclosure; and

(D) Provide options for student continuance in the program; and

(8) Be subject to sections 30254, 30255(b)(4) through (b)(6), and 30295 and the applicable record keeping and reporting requirements of Subparts L and M of 10 CFR 20 as incorporated by reference in section 30253. The word "user" found in the aforementioned provisions shall be construed broadly to include an approved school. The report required pursuant to section 30255(b)(6) shall be provided to the student upon graduation, dismissal, suspension, or voluntary withdrawal from the program, or, if the final report has not been received by the date of that event, within 30 days after the student's report is received from the dosimetry processor.

(b) Documentation demonstrating compliance with this section shall be maintained for Department inspection.

Note: Authority cited: Sections 114870 and 131200, Health and Safety Code. Reference: Sections 107045, 114870(d), 131050, 131051 and 131052, Health and Safety Code.

Note: Authority cited: Section 25668(a), Health and Safety Code. Reference: Sections 25668(d) and 25686, Health and Safety Code.

### **§ 30421. Curriculum for Approved Diagnostic Radiologic Technology Schools.**

Approved diagnostic radiologic technology schools shall require that each student who graduates from the school completes:

(a) Coursework addressing the content categories listed in Appendix D of the 2010 "Radiography Certification Handbook and Application Materials"\* published by the American Registry of Radiologic Technologists (ARRT), which is hereby incorporated by reference. The school shall use the "Radiography Curriculum"\* published by the American Society of Radiologic Technologists (ASRT), dated 2007, which is hereby incorporated by reference, to ensure the ARRT content categories are addressed.

(b) At least 1,850 hours of clinical training and demonstrates competence in those areas required to meet the clinical competency requirements specified in Appendix C of the 2010

“Radiography Certification Handbook and Application Materials”\* published by the ARRT, which is hereby incorporated by reference.

(c) The following:

(1) Ten hours of instruction in:

- (A) Anatomy and physiology of venipuncture sites;
- (B) Venipuncture instruments, intravenous solutions, and related equipment;
- (C) Puncture techniques;
- (D) Techniques of intravenous line establishment;
- (E) Hazards and complications of venipuncture;
- (F) Post-puncture care;
- (G) Composition and purpose of antianaphylaxis tray; and
- (H) First aid and basic cardiopulmonary resuscitation; and

(2) After completing the requirements of subsection (c)(1), performs ten venipunctures in an upper extremity on live human beings under supervision.

~~(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.~~

~~(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.~~

~~(c) The classroom instruction shall include at least the following:~~

<del>Subject</del>	<del>Hours of Instruction</del>
<del>(1) Radiation protection pertaining to radiography.....</del>	<del>50</del>
<del>(2) Introduction to radiologic technology.....</del>	<del>5</del>
<del>(3) Professional ethics.....</del>	<del>5</del>
<del>(4) Anatomy and physiology.....</del>	<del>50</del>
<del>(5) Medical terminology.....</del>	<del>15</del>
<del>(6) Physics and electricity.....</del>	<del>40</del>
<del>(7) Principles of radiographic exposure.....</del>	<del>30</del>
<del>(8) Film/image receptor processing (theory and equipment)....</del>	<del>10</del>
<del>(9) Survey of diseases.....</del>	<del>10</del>
<del>(10) Nursing procedures.....</del>	<del>15</del>
<del>(11) Pediatric radiography.....</del>	<del>10</del>
<del>(12) Procedures involving contrast media.....</del>	<del>80</del>

(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 30410.2.....	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:

Procedures	Number
(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

~~(h) Each training facility approved as a diagnostic radiologic technology 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.~~

Note: Authority cited: Sections 114870, 131050, 131051 and 131200, Health and Safety Code.  
Reference: Sections 106985, 107045, and 114870(d), 131050, 131051 and 131052, Health and Safety Code.

\*Copies of the ARRT and ASRT documents referenced in this section may be obtained at <https://www.arrt.org/> and <https://www.asrt.org/content/Publications/asrtpublications.aspx>.

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**§ 30421.5. Curriculum for Approved Mammographic Radiologic Technology Schools.**

Approved mammographic radiologic technology schools shall require that each student who graduates from the school:

(a) Completes, within 24 months prior to the date of graduation, forty hours of education and training as follows:

(1) Education in breast anatomy and physiology, positioning and compression, quality assurance/quality control techniques, and imaging of patients with breast implants;

(2) Training in the performance of 25 mammographic examinations under direct supervision, as defined in section 30315.10, of an individual meeting the requirements of section 30315.51.

Actual time spent in performance of the required examinations may be counted towards the required 40 hours up to a maximum of 12.5 hours. The examinations may only be performed on mammographic X-ray equipment:

(A) On which is posted the document specified in Health and Safety Code section 115115(b);

or

(B) If the facility is outside of Department jurisdiction, in a facility possessing a current and valid certificate issued by the U.S. Food and Drug Administration (FDA) pursuant to title 21, Code of Federal Regulations, section 900.11(b)(1); and

(3) Completes at least 8 hours of training in film-screen mammography or 8 hours in digital imaging mammography. If the student is receiving training in both modalities, the student must complete at least eight hours in each modality for a total of at least 16 hours.

(b) Obtains experience through the performance of an additional 75 mammographic examinations. These examinations may be performed only as specified in subsection (a)(2);

(c) Actively participates in or observes at least four of the following procedures:

(A) Needle localization;

(B) Breast magnetic resonance imaging;

(C) Breast ultrasound: imaging, biopsy, or fine needle aspiration;

(D) Stereotactic procedure;

(E) Breast-implant imaging;

(F) Ductography; or

(G) Diagnostic work-up such as magnification, exaggerated craniocaudal lateral views, lateromedial views, or implant imaging; and

(d) Actively participates in the performance, evaluation, and recording of all the Quality Control tests shown in either Table 1, Film-Screen Systems, or in Table 2, Digital Systems (Table 1 and Table 2 are mutually exclusive); and

<u>Table 1, Film-Screen Systems</u>		<u>Table 2, Digital Systems</u>	
<u>Film-Screen Systems</u>	<u>Number of Repetitions</u>	<u>Digital Systems</u>	<u>Number of Repetitions</u>
<u>Darkroom cleanliness</u>	<u>25</u>	<u>Monitor cleaning</u>	<u>25</u>
<u>Processor QC</u>	<u>25</u>	<u>Laser Imager QC test including Society of Motion Picture and Television Engineers test pattern (SMPTE)</u>	<u>25</u>
<u>Screen cleanliness</u>	<u>4</u>	<u>Detector Calibration/Flat field</u>	<u>4</u>
<u>Phantom images</u>	<u>4</u>	<u>Phantom images</u>	<u>4</u>
<u>Darkroom fog</u>	<u>2</u>	<u>Modulation Transfer Function, Signal to Noise Measurement, Contrast to Noise Measurement</u>	<u>4</u>
<u>Screen-film contact</u>	<u>8 cassettes</u>		
<u>Compression</u>	<u>2</u>	<u>Compression</u>	<u>2</u>
<u>Repeat analysis</u>	<u>2</u>	<u>Repeat analysis</u>	<u>2</u>
<u>View-boxes and viewing conditions</u>	<u>4</u>	<u>Viewboxes and viewing conditions</u>	<u>4</u>
<u>Analysis of fixer retention in film</u>	<u>2</u>	<u>Monitor calibration QC and SMPTE test pattern</u>	<u>2</u>
<u>Visual checklist</u>	<u>2</u>	<u>Visual checklist</u>	<u>2</u>
<u>Review medical physicist's annual survey report</u>	<u>1</u>	<u>Review medical physicist's annual survey report</u>	<u>1</u>

(e) Reviews the mammograms produced during at least 20 mammographic examinations with a physician who meets the requirements of title 21, Code of Federal Regulations, section 900.12(a)(1) to evaluate radiographic technique, breast anatomy, and pathology.

(f) Completes the standards specified in subsections (b) through (e) within 12 months prior to the date of graduation.

Note: Authority cited: Sections 114870 and 131200, Health and Safety Code. Reference: Sections 106985, 107045, 114870(d), 131050, 131051 and 131052, Health and Safety Code.

**§ 30422. Curriculum for Approved Therapeutic Radiologic Technology Schools.**

Approved therapeutic radiologic technology schools shall require that each student who graduates from the school completes:

(a) Coursework addressing the topics listed in Appendix C of the 2010 "Radiation Therapy Certification Handbook and Application Materials"\* published by the American Registry of Radiologic Technologists (ARRT), which is hereby incorporated by reference. The school shall use the "Radiation Therapy Professional Curriculum"\* published 2009 by the American Society of Radiologic Technologists (ASRT), which is hereby incorporated by reference, to ensure the ARRT topics are addressed.

(b) At least 1,500 hours of clinical training and demonstrates competence in those areas required to meet the clinical competency requirements specified in Appendix B of the 2010 "Radiation Therapy Certification Handbook and Application Materials"\* published by the ARRT, which is hereby incorporated by reference.

(c) The following:

(1) Ten hours of instruction in:

(A) Anatomy and physiology of venipuncture sites;

(B) Venipuncture instruments, intravenous solutions, and related equipment;

(C) Puncture techniques;

(D) Techniques of intravenous line establishment;

(E) Hazards and complications of venipuncture;

(F) Post-puncture care;

(G) Composition and purpose of antianaphylaxis tray; and

(H) First aid and basic cardiopulmonary resuscitation; and

(2) After completing the requirements of subsection (c)(1), performs ten venipunctures in an upper extremity on live human beings under supervision.

~~(a) In order to be approved by the Department as a therapeutic radiologic technology school, a training facility shall include in its curriculum all requirements of subsections (b) through (g), inclusive, of this section.~~

~~(b) The course of study shall meet at least all of the following:~~

~~(1) 455 hours of formal classroom instruction.~~

~~(2) 15 hours of general radiographic laboratory.~~

~~(3) 60 hours of physics and radiation protection laboratory.~~

- (4) 75 hours of radiotherapy laboratory.
- (5) 1500 hours of supervised clinical education.

(c) ~~The classroom instruction shall include at least the following:~~

<del>Subject</del>	<del>Hours of Instruction</del>
(1) Radiation protection pertaining to radiation therapy.....	50
(2) Introduction and orientation.....	5
(3) Professional ethics.....	5
(4) Anatomy and physiology.....	50
(5) Medical terminology.....	10
(6) Physics of radiation therapy.....	85
(7) Mathematics.....	15
(8) Pathology.....	25
(9) Nursing procedures.....	25
(10) Radiobiology and chemotherapy.....	25
(11) Principles of radiation therapy.....	25
(12) Technical radiation therapy and treatment planning....	55
(13) Intercavitary and interstitial therapy.....	25
(14) Principles of radiography.....	35
(15) Senior student seminar.....	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).
- (2) Radiographic contrast (kilovoltage, filtration, scatter, film type, exposure, processing).
- (3) Control of scatter (collimation, grids).
- (4) Intensifying screens (type, screen-film contact, cassette).
- (5) Sharpness (penumbra, inverse square law, source and phantom film distance, size of the focal spot, motion, magnification and distortion).

(e) ~~In the physics and radiation protection laboratory each student shall perform experiments that will illustrate at least all of the following:~~

- (1) ~~Method of reducing dose to the patient (shutters, cones, collimators, filters, optimum exposure techniques, optimum film and screen use, gonadal shielding, source-film distance).~~
- (2) ~~Reduction of dose to personnel (shielding of the X-ray tube and treatment room, protection against secondary radiation, monitoring, protective clothing).~~
- (3) ~~Quality control procedures:~~
  - (A) ~~Identification of parts of basic therapy equipment.~~
  - (B) ~~Functions of various types of therapy equipment.~~
  - (C) ~~Methods of calculating dosage throughout the irradiated area.~~
  - (D) ~~Use of computer in treatment planning.~~
  - (E) ~~Calibration of therapy equipment and use of ionization chambers.~~
  - (F) ~~Care and safe operation of equipment (testing for safety, interlocks, shutters, communication and viewing systems, erratic operation of machinery, daily inspection and routine maintenance, emergency procedures).~~

~~(G) Handling of radioactive materials (use of radiation measuring devices, area surveys, wipe and leak tests, storage and disposal, emergency decontamination).~~

~~(f) In the radiotherapy procedures laboratory each student shall:~~

- ~~(1) Manipulate treatment and simulator units.~~
- ~~(2) Operate darkroom equipment and accessories, including automatic processor.~~
- ~~(3) On simulated patients and phantoms, position and select exposure factors for routine localization procedures such as chest, abdomen, head and neck, and pelvis.~~
- ~~(4) Position simulated patients and phantoms for treatment of chest, pelvis and abdomen.~~

~~(g) During the supervised clinical education each student shall perform or assist in performing radiation therapy procedures involving the following:~~

- ~~(1) Head and neck.~~
- ~~(2) Central nervous system.~~
- ~~(3) Respiratory system.~~
- ~~(4) Digestive system.~~
- ~~(5) Reproductive system.~~
- ~~(6) Urinary system.~~
- ~~(7) Endocrine system.~~
- ~~(8) Circulatory system.~~
- ~~(9) Reticulo-endothelial system.~~
- ~~(10) Skin.~~
- ~~(11) Soft tissue.~~
- ~~(12) Pediatric.~~
- ~~(13) Metastases.~~

~~(h) Each training facility approved as a therapeutic radiologic technology 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 therapeutic radiologic technology school to maintain any of these standards shall be grounds for suspension or revocation of approval.~~

~~Note: Authority cited: Section 25668(a), Health and Safety Code. Reference: Sections 25668(d) and 25686, Health and Safety Code.~~

~~Note: Authority cited: Sections 114870 and 131200, Health and Safety Code. Reference: Sections 106985, 107045, 114870(d), 131050, 131051 and 131052, Health and Safety Code.~~

~~\*Copies of the ARRT and ASRT documents referenced in this section may be obtained at <https://www.rrt.org/> and <https://www.asrt.org/content/Publications/asrtpublications.aspx>.~~

§ 30423. Radiologic Technologist Fluoroscopy Permit Schools.

**RTCC made no recommendation on fluoroscopy curriculum. The following proposal is based on the new ARRT fluoroscopy Exam content specifications and its task analysis and the ASRT and American Academy of Physician Assistants "Fluoroscopy Educational Framework".**

Approved radiologic technologist fluoroscopy permit schools shall require that each student who graduates from the school:

(a) Completes didactic instruction that is no less than 40 hours in length and fully covers the content categories listed in the document "Content Specification for the Fluoroscopy Examination"\* published November 2010 by the American Registry of Radiologic Technologists (ARRT), which is hereby incorporated by reference. The school shall use the detailed listing of topics identified in that document to ensure the categories are addressed.

(b) Completes supervised clinical training of at least 40 hours in length during which fluoroscopic procedures are performed and documented as follows:

(1) Procedures may be performed only if a holder of one of the following authorizations is physically present to observe, verify, and correct as needed, the performance of the student who is performing the procedure:

- (A) Radiology supervisor and operator certificate;
- (B) Fluoroscopy supervisor and operator permit; or
- (C) Radiologic technologist fluoroscopy permit; and

(2) Documentation shall include an operation check-off of each fluoroscopic room/portable fluoroscopy device prior to initial use. Documentation of procedures shall include the name of the procedure, date of procedure, time of day completed, facility where performed and the name and certificate or permit number of the person observing and verifying performance.

~~(a) In order to be approved by the Department as a radiologic technologist fluoroscopy permit school, a school shall offer a course of study that includes in its curriculum all requirements of subsections (b) and (c) of this section.~~

~~(b) The classroom instruction shall include at least the following:  
Subject \_\_\_\_\_ Hours of Instruction~~

~~(1) Fluoroscopy regulations and radiation safety..... 10~~

(2) Fluoroscopy equipment.....	5
(3) X-ray image intensifiers.....	4
(4) Television, including closed circuit equipment.....	4
(5) Image recording and image recording equipment.....	6
(6) Special fluoroscopy equipment.....	5
(7) Mobile image intensified units.....	2
(8) Anatomy and physiology of the eye.....	2
(9) Three-dimensional and radiological anatomy.....	2

~~(c) At least 15 hours of laboratory in which each student shall conduct experiments on phantoms to illustrate at least the following:~~

- ~~(1) Methods of reducing dose to patients during fluoroscopy procedures.~~
- ~~(2) Methods of reducing exposure to self and personnel.~~
- ~~(3) Image recording during the exposure of phantom.~~
- ~~(4) Quality control of fluoroscopy equipment.~~

~~(d) Each training facility approved as a radiologic technology fluoroscopy permit 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 radiologic technology fluoroscopy permit school to maintain any of these standards shall be grounds for suspension or revocation of approval.~~

~~Note: Authority cited: Section 25668(a), Health and Safety Code. Reference: Sections 25668(d) and 25686, Health and Safety Code.~~

~~Note: Authority cited: Sections 114870 and 131200, Health and Safety Code. Reference: Sections 107045, 114870(d), 131050, 131051 and 131052, Health and Safety Code.~~

~~\*Copies of this document are available at <https://www.arrt.org>. Click on "Examinations" then "Content Specs" and then select "Fluoroscopy."~~

**Proposed Alternative to section 30424 will be presented after review of the following proposed changes.**

**Alternative follows the below section.**

**§ 30424. Limited Permit X-Ray Technician Schools Teaching the Chest, Extremities, Gastrointestinal, Genitourinary, Leg-Podiatric, Skull, or Torso-Skeletal Categories.**

(a) ~~An applicant for approval as a~~Approved limited permit X-ray technician schools~~Limited Permit X-ray Technician School~~ teaching the chest, extremities, gastrointestinal, genitourinary, leg-podiatric, skull, or torso-skeletal permit categories shall require that each student who graduates from the school complete, for each limited permit category, the following ~~course of study~~educational program, within 24 months of beginning the course of study, and the supervised clinical education within one consecutive period of 12 months during that 24 month period. However, the program may not be less than six months:

(1) One hundred forty (140) hours of formal classroom education for each limited permit category, which shall include the following:

Subject	Hours of Instruction
(A) Radiation protection and safety.....	50
(B) Radiological physics.....	<del>15</del> <u>20</u>
(C) <del>X-ray technical factors</del> <u>Principles of Radiographic Exposure</u> .....	<del>15</del> <u>30</u>
(D) <del>Equipment operation and care</del> , <u>Quality Assurance and Control</u> .....	10
(E) <del>Darkroom and film</del> <u>Image</u> processing.....	10
(F) Medical terminology.....	5
(G) Medical ethics.....	<del>15</del> <u>5</u>
(H) <del>Nursing procedures</del> <u>Patient Care</u> .....	<del>4</del> <u>10</u>
(I) <del>Film critique</del> <u>Image Evaluation</u> .....	5
(J) Anatomy and physiology.....	<del>5</del> <u>20</u>
(K) Digital radiologic technology as specified in section 30410.2.....	20

(L) Pediatric and Geriatric Radiography..... 5

(2) For each category, the following hours of ~~specialized classroom~~ specific instruction in anatomy and physiology, and positioning:

Category	Hours of Instruction
(A) Chest.....	10
(B) Extremities.....	20
(C) Gastrointestinal.....	20
(D) Genitourinary....	10
(E) Leg-podiatric....	10
(F) Skull.....	30
(G) Torso-skeletal...	30

**GI & GU categories to be determined.**

<u>Category</u>	<u>Hours of Instruction in Anatomy and Physiology</u>	<u>Hours of Instruction in Positioning</u>
<u>Chest</u>	<u>5</u>	<u>5</u>
<u>Extremities</u>	<u>15</u>	<u>15</u>
<u>Leg-podiatric</u>	<u>5</u>	<u>5</u>
<u>Skull</u>	<u>10</u>	<u>20</u>
<u>Torsoskeletal</u>	<u>15</u>	<u>15</u>

(3) ~~Fifteen (15)~~ Twenty hours of radiation protection laboratory during which each student shall conduct experiments that demonstrate:

- (A) Methods of reducing dose per exposure to patient.
- (B) Methods of reducing dose to personnel.
- (C) Methods of reducing dose to general population.

(4) Ten (10) hours of general radiographic laboratory during which each student shall conduct experiments that demonstrate:

- (A) Effects of kilovoltage, milliamperage, filtration, distance, and heel effect on radiographic contrast and detail.
- (B) Control of scatter.
- (C) Quality control.

(5) Supervised clinical education for each category during which each student shall perform or assist in the performance of the following number of radiographic procedures:

Category	Number of Procedures
(A) Chest.....	100
(B) Extremities.....	100
(C) Gastrointestinal.....	100
<del>(D) Genitourinary....</del>	<del>100</del>
(E) Leg-podiatric.....	50
(F) Skull.....	100
(G) Torso-skeletal...	200

**GI & GU categories to be determined.**

(b) Procedures performed only for chiropractic purposes may account for no more than 25 percent of the required number of procedures specified in subsection (a)(5).

Note: Authority cited: Sections 114870(a), 131050, 131051 and 131200, Health and Safety Code. Reference: Sections 106975, 107045, 114850, 114870(c) and (d) and 114880, Health and Safety Code.

RTCC DRAFT

**ALTERNATIVE to Section 30424**

Follow the ASRT Limited X-ray Machine Operator (LXMO) Curriculum 2009

**Didactic Instruction:**

Topic	Hours
Digital Image Acquisition and Display	40
Fundamentals, Ethics and Law of Health Care	8
Human Structure and Function	25
Film/Screen Image Production and Evaluation	50
Imaging Equipment and Radiation Production	40
Medical Terminology	10
Patient Care in Radiologic Sciences	30
Radiation Protection and Radiobiology	60
	(273)
Radiographic Anatomy, Procedures and Pathology	Chest & thorax – 20 (293) Extremities: - Upper & pectoral girdle – 20 - Lower – 20 (313) Podiatric – 10 (283) Vertebral column – 20 (293) Cranium – 20 (293)

**Clinical Experience:**

Minimum hours of clinical experience and number of procedures within each anatomic area:

- Chest and thorax – 160 hours and 100 procedures
- Extremities:
  - Upper extremity and pectoral girdle – 240 hours and 50 procedures
  - Lower extremity – 240 hours and 50 procedures
- Podiatric – 160 hours and 50 procedures
- Vertebral column – 240 hours and 50 procedures
- Cranium – 240 hours and 50 procedures

**§ 30425. Limited Permit X-Ray Technician Schools Teaching the Dental Laboratory Category.**

(a) ~~An applicant for approval as a~~ Approved limited permit X-ray technician schools teaching the Dental Laboratory category shall require that each student who graduates from the school complete the following ~~course of study~~ educational program within 24 months of beginning the ~~program~~ course of study, and the supervised clinical education, specified in subsection (a)(4), within one consecutive period of 12 months during that 24 month period:

(1) through (3)      *No Change to Text.*

(4) Supervised clinical education during which each student shall perform or assist in the performance of the following number of radiographic procedures:

Procedures	Minimum Number
(A) Peri-apical survey (consisting of at least 14 films)....	100
(B) Bitewing survey (consisting of at least four films).....	50
(C) Occlusal, mandible and maxilla.....	50
(D) Cephalometrics.....	100
<del>(E) Mandible, lateral view.....</del>	<del>50</del>
<u>(E) Panographic.....</u>	<u>100</u>
<del>(F)</del> <u>(G)</u> Temporo-mandibular joints.....	20
<del>(H)</del> <u>(G)</u> Dental bone age studies.....	20

Note: Authority cited: Sections ~~100275 and 114870(a) and 131200~~, Health and Safety Code.  
Reference: Sections 106975, 107045, 114850, 114870(c) and (d) ~~and 114880~~, 131050, 131051 and 131052, Health and Safety Code.

**§ 30427.2. Limited Permit X-Ray Technician Schools Teaching the X-Ray Bone Densitometry Category.**

~~An applicant for approval as a~~ Approved limited permit X-ray technician schools teaching the X-ray bone densitometry category shall require that each student who graduates from the school complete the following educational program ~~course of study~~ within ~~12~~ two months of beginning the ~~program~~ course of study. However, the program may not be less than three days:

(a) Eighteen (18) hours of formal classroom education consisting of the following:

Subject	Hours of Instruction
(1) Radiation physics, biology, and protection.....	3
(2) Bone biology, bone disease and therapy, and densitometry parameters.....	3
(3) X-ray bone densitometry equipment.....	4
(4) Computers and image formation.....	3
(5) Anatomy and positioning.....	4
(6) Ethics and patient handling.....	1

(b) ~~Four~~ Two hours of laboratory training during which each student shall perform quality assurance tests and experiments using phantoms and evaluate images.

(c) Supervised clinical education during which each student shall perform the following number of radiographic procedures:

Procedure	Number
(1) Posterior/Anterior spine.....	5
(2) Hip.....	5
<del>(3) Extremity.....</del>	<del>10</del>
<u>(3) Forearms.....</u>	<u>5</u>
<u>(4) Other (e.g. whole body, hip, spine, extremity, vertebral fracture assessment).....</u>	<u>5</u>

Note: Authority cited: Sections ~~100275 and 114870(a)~~ and 131200, Health and Safety Code.  
Reference: Sections 106975, 107045, 114850, 114870(c) and (d), ~~and 114880, 131050, 131051 and 131052~~, Health and Safety Code.

**§ 30428. Approval of On-the-Job Training.**

~~(a) In order to be approved by the Department as an on-the-job training program, the supervisor and operator and the prospective student of radiologic technology shall submit to the Department an application for each limited permit category on forms furnished by the Department.~~

~~(b) The application for approval shall include a training schedule for each limited permit category applied for.~~

~~(c) The standards for approval of on-the-job training programs shall be those standards required of approved schools for limited permits as outlined in Sections 30424 and 30425 or for limited permit courses of study as outlined in Section 30427.~~

~~(d) Limited permit categories for on-the-job training programs shall be restricted to the categories listed in Section 30442.~~

~~(e) Each approved on-the-job training program shall meet and maintain all applicable standards set forth in this section and in Sections 30424, 30425 and 30427. Failure of an applicant to meet the applicable standards shall be grounds for denial of approval. Failure of an approved on-the-job training program to maintain any of the applicable standards shall be grounds for suspension or revocation of approval.~~

Note: Authority cited: Section 114870(a), Health and Safety Code. Reference: Section 114875, Health and Safety Code.

### § 30435. Notification Requirements.

**30435 Still under construction.**

(a) Prior to any of the following, an approved school shall obtain Department approval:

(1) Changes in curricula such as course number, hours...

(2) Changes in faculty as specified in section 30418.

(b) Within 30 days after any of the following, an official of an approved school, ~~course of study,~~ or on-the-job training program shall, on forms furnished by the Department, shall, in writing, inform the Department of:

(a) Change in facility ~~the school's~~ location or telephone number.

~~(b) Change in course offerings.~~

~~(c) Change of program director or faculty.~~

(d) Change of affiliation agreements including any change in the content of an agreement.

~~(e) Names and addresses of students who have been dismissed, suspended or who have voluntarily withdrawn from the clinical education.~~

~~(f) Names and addresses of students who have graduated.~~

Note: Authority cited: Sections ~~25668~~114870(a), and 131200, Health and Safety Code. Reference: Sections ~~25668~~114870, 131050, 131051 and 131052, Health and Safety Code.

**§ 30436. Standards for Suspension or Revocation of Approval.**

(a) Approval of any school or on-the-job training program, which has been granted pursuant to section ~~30412~~~~30420~~ or ~~30428~~, may be revoked, suspended, limited or conditioned for any of the following reasons:

(1) Violation of any provision of the Radiologic Technology Act, as defined in Health and Safety Code section 27, or any regulation promulgated pursuant thereto; or

(2) Failure to maintain a five-year average credentialing examination pass rate of at least 75 percent, at any time, fewer than 75% of the Department-approved examinations referenced in sections 30440, 30444, 30451 and 30455.1 and administered in the previous five years to graduates of the school have received a passing score.

(3) Making false attestations, or providing false information, etc.

(4) Failure to comply with commitments.

(d) Failure to meet and maintain all applicable standards set forth in this subchapter.

Note: Authority cited: Sections ~~100275~~, and ~~114870(a)~~ and 131200, Health and Safety Code.  
Reference: Sections 107045, 114840, 114870(b)-(d), 114875, and ~~114880~~, 131050, 131051 and 131052, Health and Safety Code.

**§ 30437. Additional School Requirements and Recordkeeping.**

(a) A school approved pursuant to section ~~30420~~30412 shall:

(1) Issue to each student who graduates from or who successfully completes ~~a required course of study~~the required educational program, a certificate or diploma, which includes:

(A) The student's name;

(B) The name, or the limited permit category listed in section 30442, of the educational program or ~~course of study~~ completed by the student;

(C) The date(s) of attendance;

(D) The number of the certificate issued by the Department to the school; and

(E) The signature of the school's chief executive officer, dean or department administrator;

(2) Within 30 days of discontinuance of the school:

(A) Notify the Department of how all records kept pursuant to subsection (b) will be preserved and surrender the school approval certificate to the Department; or

(B) Notify the Department, transmit all records required to be kept pursuant to subsection (b) to the Department and surrender the school approval certificate to the Department; and

(3) Within 30 days of discontinuance of instruction in any limited permit category, notify the Department.

(b) Each school approved pursuant to section ~~30412~~~~30420~~ and each on-the-job training program approved pursuant to ~~30428~~ shall retain for at least five years and make available for inspection by the Department:

(1) Records of attendance;

(2) Proof of participation in clinical education;

(3) ~~Proof of performance of laboratory procedures~~Competency determinations made pursuant to section 30417;

(4) Certificates or diplomas issued; and

(5) Program transcripts.

Note: Authority cited: Sections ~~100275~~ and 114870(a) and 131200, Health and Safety Code.  
Reference: Sections 107000, 107045, 114850, 114870(c) and (d) ~~and 114880~~, 131050, 131051 and 131052, Health and Safety Code.

#### **§ 30440. Eligibility for and Issuance of Radiologic Technology Certificates.**

(a) To be eligible for a radiologic technology certificate an applicant shall:

(1) Submit to the Department an acceptable application containing:

(A) The legal name, social security number (pursuant to the authority found in sections 131050, 131051, 131200 and 114870 of the Health and Safety Code and as required by section 17520 of the Family Code, providing the social security number is mandatory. The social security number will be used for purposes of identification), mailing address, and telephone number of the applicant;

(B) The fee required in section 30408;

(C) Whether the applicant is applying for a certificate in diagnostic or therapeutic radiologic technology; and

(D) Either of the following:

1. A copy of the radiologic technology certification school graduation diploma or certificate, as appropriate, issued to the applicant indicating that the applicant graduated within the previous three years; or

2. Documentation that the applicant has, within the previous five years, passed the applicable certification examination of the American Registry of Radiologic Technologists (ARRT), or is an ARRT registrant; and

(2) For the diagnostic radiologic technology certificate, except for applicants who meet subsection (a)(1)(D)2, pass Department-approved examinations in:

(A) Diagnostic radiation protection and safety; and

(B) Diagnostic radiologic technology; or

(3) For the therapeutic radiologic technology certificate, except for applicants who meet subsection (a)(1)(D)2, pass Department-approved examinations in:

(A) Therapeutic radiation protection and safety; and

(B) Therapeutic radiologic technology.

(b) The Department may deny a radiologic technology certificate on the basis of any the reasons set forth in section 107070 of the Health and Safety Code which pertain to denial of certificates and permits, notwithstanding the fact that the individual has otherwise satisfied the requirements of this section.

~~To obtain a radiologic technology certificate an applicant shall have on file with the Department an application as described in Section 30441, and in addition:~~

~~— (a) For the diagnostic radiologic technology certificate, shall pass Department-approved examinations in:~~

~~— (1) Diagnostic radiation protection and safety, and~~

~~— (2) Diagnostic radiologic technology.~~

~~— (b) For the therapeutic radiologic technology certificate, shall pass Department-approved examinations in:~~

~~— (1) Therapeutic radiation protection and safety, and~~

~~— (2) Therapeutic radiologic technology.~~

Note: Authority cited: Sections 25668114870(a) and 131200, Health and Safety Code. Reference: Sections 107005,25668(b) and 25677 114870(b), 131050, 131051 and 131052, Health and Safety Code.

**§ 30444. Eligibility for and Issuance of Limited Permits.**

~~To obtain any of the limited permits described in Section 30442 an applicant shall fulfill all of the following conditions:~~

~~—— (a) Have on file with the Department an application, as described in Section 30445, for each permit applied for, and~~

~~—— (b) Pass Department approved examinations in:~~

~~—— (1) Radiation protection and safety, for each permit category applied for, and~~

~~—— (2) Radiologic technology, for each permit category applied for.~~

(a) To be eligible for any of the limited permit categories listed in section 30442 an applicant shall:

(1) Submit to the Department an acceptable application containing:

(A) The legal name, social security number (pursuant to the authority found in sections 131050, 131051, 131200 and 114870 of the Health and Safety Code and as required by section 17520 of the Family Code, providing the social security number is mandatory. The social security number will be used for purposes of identification.), mailing address, and telephone number of the applicant;

(B) The fee required pursuant to section 30408;

(C) Identification of the permit category for which the applicant is applying; and

(D) A copy of the limited permit X-ray technician school graduation diploma or certificate in the limited permit category applied for indicating that the applicant graduated within the previous three years; and

(2) Pass Department-approved examinations in:

(A) Radiation protection and safety; and

(B) For each permit category applied for, radiologic technology.

(b) The Department may deny a limited permit on the basis of any the reasons set forth in section 107070 of the Health and Safety Code which pertain to denial of certificates and permits, notwithstanding the fact that the individual has otherwise satisfied the requirements of this section.

Note: Authority cited: Sections 25668114870(a) and 131200, Health and Safety Code. Reference: Sections 106995, 25668114870(c) and 25675, 131050, 131051 and 131052, Health and Safety Code.

**§ 30450. Radiologic Technologist Fluoroscopy Permit Requirement.**

(a) Except as provided in subsection (b), A radiologic technologist fluoroscopy permit issued by the Department shall be required of any radiologic technologist who exposes a patient to X-rays in a fluoroscopy mode, selects exposure factors for operation in the fluoroscopy mode prior to the first X-ray exposure, or who does one or more of the following after the first X-ray exposure during fluoroscopy of a patient:

- (a1) Positions the patient;
- (b2) Positions the fluoroscopy equipment; or
- (c3) Selects Adjusts exposure factors.

(b) A radiologic technologist fluoroscopy permit is not required of a certified therapeutic radiologic technologist performing fluoroscopy for therapeutic treatment planning purposes.

~~Note: Authority cited: Section 25668(a), Health and Safety Code. Reference: Sections 25668(c) and 25675, Health and Safety Code.~~

Note: Authority cited: Sections 114870(a), and 131200, Health and Safety Code. Reference: Section 106995, 114870(c), 131050, 131051 and 131052, Health and Safety Code.

**§ 30451. Eligibility for and Issuance of Radiologic Technologist Fluoroscopy Permits.**

~~To obtain a radiologic technologist fluoroscopy permit an applicant shall fulfill all of the following:~~

- ~~(a) File with the Department an application as described in Section 30452, and~~
- ~~(b) Pass Department-approved examinations in:~~
  - ~~(1) Fluoroscopy radiation protection and safety, and~~
  - ~~(2) Use of fluoroscopy and ancillary equipment.~~

(a) To be eligible for a radiologic technologist fluoroscopy permit an applicant shall:

- (1) Be a certified diagnostic radiologic technologist;
- (2) Submit to the Department an acceptable application containing:

(A) The legal name, social security number (pursuant to the authority found in sections 131050, 131051, 131200 and 114870 of the Health and Safety Code and as required by section 17520 of the Family Code, providing the social security number is mandatory. The social security

number will be used for purposes of identification), mailing address, and telephone number of the applicant;

(B) The certificate number indicated on the applicant's diagnostic radiologic technology certificate;

(C) The fee required in section 30408; and

(D) Either of the following:

1. A copy of the radiologic technology fluoroscopy permit school graduation diploma or certificate issued to the applicant indicating that the applicant graduated within the previous three years; or

2. Documentation that the applicant graduated from a diagnostic radiologic technology program accredited by the Joint Review Committee on Education in Radiologic Technology and, within the previous five years, passed the American Registry of Radiologic Technologists (ARRT) radiography examination; or is an ARRT radiography registrant; and

(3) Pass Department-approved examinations in fluoroscopy radiation protection and safety, and use of fluoroscopy and ancillary equipment.

(b) The Department may deny a radiologic technologist fluoroscopy permit on the basis of any the reasons set forth in section 107070 of the Health and Safety Code which pertain to denial of certificates and permits, notwithstanding the fact that the individual has otherwise satisfied the requirements of this section.

~~Note: Authority cited: Section 25668(a), Health and Safety Code. Reference: Sections 25668(c) and 25675, Health and Safety Code.~~

~~Note: Authority cited: Sections 114870, and 131200, Health and Safety Code. Reference: Sections 114870(c), 131050, 131051 and 131052, Health and Safety Code.~~

**§ 30455.1. Eligibility for and Issuance of a Mammographic Radiologic Technology Certificate.**

~~(a) To obtain a Mammographic Radiologic Technology Certificate an applicant shall hold a valid and current Diagnostic Radiologic Technology Certificate issued pursuant to section 30440(a) and shall comply with all of the following:~~

~~(1) File with the Department a complete application on the Department form entitled "Application for a Certificate in Radiologic Technology", Form DHS 8200 (6/96);~~

~~(2) Submit a fee pursuant to Section 30408;~~

~~(3) Submit evidence of having been awarded a mammographic radiologic technology school graduation diploma or certificate; and~~

~~(4) Pass a Department examination in mammography technology, including radiation protection and mammography quality assurance.~~

~~(b) The following may be substituted for the requirement in subsection (a)(3) with respect to applications filed prior to July 1, 2000:~~

~~(1) Advanced certification in mammography issued to the applicant by the American Registry of Radiologic Technologists; or~~

~~(2) Evidence of having completed 40 hours of continuing education in mammography courses.~~

(a) To be eligible for a mammographic radiologic technology certificate an applicant shall:

(1) Be a certified diagnostic radiologic technologist;

(2) Submit to the Department an acceptable application consisting of:

(A) The legal name, social security number (pursuant to the authority found in sections 114870, 131050, 131051 and 131200 of the Health and Safety Code and as required by section 17520 of the Family Code, providing the social security number is mandatory. The social security number will be used for purposes of identification), mailing address, and telephone number of the applicant;

(B) The certificate number indicated on the applicant's diagnostic radiologic technology certificate;

(C) The application fee specified in section 30408; and

(D) Either of the following:

1. A copy of the mammographic radiologic technology school graduation diploma or certificate issued to the applicant indicating that the applicant graduated within the previous three years; or

2. Documentation that the applicant is both certified by the American Registry of Radiologic Technologists (ARRT) in mammography and is a current ARRT registrant; or has passed the ARRT's mammography certification examination within the previous five years.

(b) Except for applicants meeting subsection (a)(2)(D)2, pass a Department examination in mammographic radiologic technology including radiation protection and mammography quality assurance.

(c) The Department may deny a mammographic radiologic technology certificate on the basis of any the reasons set forth in section 107070 of the Health and Safety Code which pertain to denial of certificates and permits, notwithstanding the fact that the individual has otherwise satisfied the requirements of this section.

NOTE: Authority cited: Sections ~~100275 and 114870~~ and 131200, Health and Safety Code.  
Reference: Sections 107010, 114840, 114845 and 114870, 131050, 131051 and 131052, Health and Safety Code.

**§ 30460. Licentiate Certificate and Scope of Certificate.**

(a) The certificate category for licentiates of the healing arts is: Radiology supervisor and operator.

(b) A radiology supervisor and operator certificate authorizes the holder, within the limitation of the holder's California healing arts license, to:

(1) Actuate or energize X-ray equipment registered pursuant to Article 1 of Group 1.5 of subchapter 4.0 (commencing at section 30108); and

(2) Supervise the use of registered X-ray equipment by a CRT, an XT, or any student in an approved school when the student is operating X-ray equipment.

~~Note: Authority cited: Section 25668(a), Health and Safety Code. Reference: Section 25668(e), Health and Safety Code.~~

Note: Authority cited: Sections 114870 and 131200, Health and Safety Code. Reference: Sections 107111, 114870(e), 131050, 131051 and 131052, Health and Safety Code.

**§ 30461. Licentiate Permits and Scope of Permits.**

(a) The permit categories for licentiates of the healing arts are:

(a1) Fluoroscopy supervisor and operator;

(b2) Radiography supervisor and operator;

(c3) Dermatology supervisor and operator; and

(4) X-ray bone densitometry supervisor and operator.

(b) A fluoroscopy supervisor and operator permit authorizes the holder, within the limitations of the holder's California healing arts license, to:

(1) Actuate or energize fluoroscopy X-ray equipment registered pursuant to Article 1 of Group 1.5 of subchapter 4.0 (commencing at section 30108); and

(2) Supervise the use of registered fluoroscopy X-ray equipment by:

(A) Certified diagnostic radiologic technologists who possess a current and valid radiologic technologist fluoroscopy permit; or

(B) Students in an approved school when the student is operating fluoroscopy X-ray equipment.

(c) A radiography supervisor and operator permit authorizes the holder, within the limitation of the holder's California healing arts license, to:

(1) Actuate or energize radiography X-ray equipment registered pursuant to Article 1 of Group 1.5 of subchapter 4.0 (commencing at section 30108); and

(2) Supervise the use of registered radiography X-ray equipment by:

(A) Certified diagnostic radiologic technologists;

(B) XT's within the scope of the XT's limited permit category as defined in section 30443 and as restricted by section 30447; or

(C) Students in an approved school when the student is operating radiography X-ray equipment.

(d) A dermatology supervisor and operator permit authorizes the holder, within the limitation of the holder's California healing arts license, to:

(1) Actuate or energize therapeutic X-ray equipment registered pursuant to Article 1 of Group 1.5 of subchapter 4.0 (commencing at section 30108) limited to the treatment of diseases and tumors of the skin; and

(2) Supervise the use of registered therapeutic X-ray equipment limited to the treatment of diseases and tumors of the skin by:

(A) Certified therapeutic radiologic technologists;

(B) XT's who hold a limited permit in the dermatology X-ray therapy category as defined in section 30443 and as restricted by section 30447; or

(C) Students in an approved school when the student is operating therapeutic X-ray equipment limited to the treatment of diseases and tumors of the skin.

(e) An X-ray bone densitometry supervisor and operator permit authorizes a licensed physician and surgeon, as limited by section 30467, to:

(1) Actuate or energize an X-ray bone densitometer (XBD) that meets the criteria specified in section 30469 (a)(1) through (a)(3) and is registered pursuant to Article 1 of Group 1.5 of subchapter

4.0 (commencing at section 30108) and for which the holder has completed the training requirement specified in section 30466(d)(3)(A); and

(2) Supervise the use of a registered XBD that meets the criteria specified in section 30469(a)(1) through (a)(3) and for which the holder has completed the training requirement specified in section 30466(d)(3)(A) by:

(A) Certified diagnostic radiologic technologists;

(B) XT's who hold a limited permit in the X-ray bone densitometry permit category as defined in section 30443 and as restricted by section 30447; or

(C) Students in an approved school when the student is operating a registered XBD.

~~Note: Authority cited: Section 25668(a), Health and Safety Code. Reference: Section 25668(e), Health and Safety Code.~~

Note: Authority cited: Sections 114870(a) and 131200, Health and Safety Code. Reference: Sections 114870(e), 131050, 131051 and 131052, Health and Safety Code.

**§ 30462. Requirements for, and to whom, a Radiology Certificate is issued.**

A radiology supervisor and operator certificate issued by the Department shall be required of and issued only to any licentiate of the healing arts who practices as a radiologist or radiation oncologist.

~~Note: Authority cited: Section 25668(a), Health and Safety Code. Reference: Section 25668(e), Health and Safety Code.~~

Note: Authority cited: Sections 114870(a) and 131200, Health and Safety Code. Reference: Sections 107111, 114870(e), 131050, 131051 and 131052, Health and Safety Code.

**§ 30463. Requirements for Fluoroscopy Permits.**

A fluoroscopy supervisor and operator permit issued by the Department shall be required of any licensee of the healing arts who does one or more of the following:

- (a) Actuates or energizes fluoroscopy equipment.
- (b) Directly controls radiation exposure to the patient during fluoroscopy procedures.
- (c) Supervises one or more persons who hold radiologic technologist fluoroscopy permits issued pursuant to ~~Section~~ section 30451.
- (d) Supervises students in an approved school when the student is operating fluoroscopy equipment.

~~Note: Authority cited: Section 25668(a), Health and Safety Code. Reference: Section 25668(e), Health and Safety Code.~~

Note: Authority cited: Sections 114870(a) and 131200, Health and Safety Code. Reference: Sections 114870(e), 131050, 131051 and 131052, Health and Safety Code.

**§ 30464. Requirements for Radiography Permits.**

A radiography supervisor and operator permit issued by the Department shall be required of any licensee of the healing arts who does one or more of the following:

- (a) Actuates or energizes radiography X-ray equipment.
- (b) Supervises one or more certified diagnostic radiologic technologists~~persons who hold radiologic technologist certificates pursuant to Section 30440(a).~~
- (c) Supervises one or more XT's~~persons who hold limited permits pursuant to Section 30444.~~
- (d) Supervises students in an approved school when the student is operating radiography X-ray equipment.

~~Note: Authority cited: Section 25668(a), Health and Safety Code. Reference: Section 25668(e), Health and Safety Code.~~

Note: Authority cited: Sections 114870(a) and 131200, Health and Safety Code. Reference: Sections 114870(e), 131050, 131051 and 131052, Health and Safety Code.

**§ 30465. Requirements for Dermatology Permits.**

A dermatology supervisor and operator permit issued by the Department shall be required of any licentiate of the healing arts who practices dermatology, ~~and~~ who uses X-ray therapy equipment for the treatment of diseases and tumors of the skin-, and does one or more of the following:

(a) Supervises one or more certified therapeutic radiologic technologists.

(b) Supervises one or more limited permit X-ray technicians holding the permit category of dermatology X-ray therapy.

(c) Supervises students in an approved school when the student is operating therapeutic X-ray equipment limited to the treatment of diseases and tumors of the skin.

~~Note: Authority cited: Section 25668(a), Health and Safety Code. Reference: Section 25668(e), Health and Safety Code.~~

Note: Authority cited: Sections 114870(a) and 131200, Health and Safety Code. Reference: Sections 114870(e), 131050, 131051 and 131052, Health and Safety Code.

**§ 30466. Eligibility for and Issuance of Licentiate Certificates or Permits.**

~~(a) To be eligible for~~ obtain a licentiate certificate or any licentiate permit an applicant shall have on file with the Department an application as described in Section 30468, and in addition:

(b) Submit an acceptable application containing the following:

(A) The legal name, mailing address, and telephone number of the applicant;

(B) The applicant's social security number (pursuant to the authority found in sections 131050, 131051, 131200 and 114870 of the Health and Safety Code and as required by section 17520 of the Family Code, providing the social security number is mandatory. The social security number will be used for purposes of identification);

(C) Identification of the certificate or permit category for which the individual is applying;

(D) Evidence that the applicant hold's a current and valid California healing arts license as a Physician and surgeon, Osteopathic physician and surgeon, Podiatrist, or a Chiropractor; and

(E) An application fee and, if the applicant is required to pass an examination, an examination fee as specified in section 30408.

(a2) For ~~obtaining a~~ the fluoroscopy supervisor and operator permit, shall pass a Department approved examination in fluoroscopy radiation protection and safety, and use and supervision of use of fluoroscopy and ancillary equipment. Passage of the examination is not required of applicants certified by the American Chiropractic Board of Radiology. Documentary evidence shall be submitted:

(b3) For ~~obtaining a~~ the radiography supervisor and operator permit, shall pass a Department approved examination in radiography radiation protection and safety, and use and supervision of use of radiography and ancillary equipment. Passage of the examination is not required of applicants certified by the American Chiropractic Board of Radiology. Documentary evidence shall be submitted:

(c4) For ~~obtaining a~~ the dermatology supervisor and operator permit, shall pass a Department approved examination in dermatology radiation protection and safety, and application and supervision of application of X-rays for treating diseases and tumors of the skin.

(5) For the X-ray bone densitometry supervisor and operator permit, submit:

(A) The manufacturer, make and model number of the X-ray bone densitometer (XBD) for which training was received:

(B) A copy of the certificate of completion issued to the applicant by the bone densitometer manufacturer's representative, or one of the following approved schools, that provided training in the use of the XBD indicating that the training specified in subsection (a)(3) was completed within the previous five years:

1. Diagnostic radiologic technology school; or

2. Limited permit X-ray technician school teaching the X-ray bone densitometry permit category;

and

(C) A copy of the curriculum covered by the manufacturer's representative or approved school. The curriculum shall include, at a minimum, instruction in all of the following areas:

1. Procedures for operation of the bone densitometer by the physician and surgeon, and for the supervision of the operation of the bone densitometer by other persons, including procedures for quality assurance of the XBD;

2. Radiation protection of the operator, the patient, and third parties in proximity to the bone densitometer;

3. Provisions of Article 5 (commencing at section 106955) of Chapter 4 of Part 1 and of Chapter 6 (commencing at section 114840) of Part 9 of Division 104 of the Health and Safety Code;

4. Provisions of Group 1 (commencing at section 30100), Group 1.5 (commencing at section 30108), and Article 1 (commencing at section 30250), Article 2 (commencing at section 30254), Article 3 (commencing at Section 30265), and Article 4 (commencing at section 30305) of Group 3 of Subchapter 4.0 of this chapter; and

5. Provisions of this subchapter (commencing at section 30400).

~~(d6) For obtaining a the radiology supervisor and operator certificate, upon penalty of perjury, attest that the applicant practices as a radiologist or radiation oncologist and shall pass examinations specified in subsections (a) and (b) of this section, unless qualified for a certificate pursuant to Section 30467, provides documentary evidence of meeting one of the following:~~

(A) Is certified by one of the following:

1. American Board of Radiology (ABR); or

2. American Osteopathic Board of Radiology (AOBR); or

(B) Has, within the previous five years, passed ABR's:

1. Diagnostic radiology initial qualifying physics examination and the diagnostic radiology initial qualifying clinical examination;

2. Diagnostic radiology core exam; or

3. Radiation oncology initial qualifying physics examination, initial qualifying cancer biology examination, and the initial qualifying clinical examination; or

(C) Has, within the previous five years, passed AOBR's:

1. Part I (Physics of Medical Imaging, Biological Effects and Safety) and Part II (Diagnostic Imaging) examinations in diagnostic radiology; or

2. Part I (Radiobiology), Part II (Physics), and Part III (Clinical) examinations in radiation oncology.

(b) The Department may deny any certificate or permit on the basis of any the reasons set forth in section 107070 of the Health and Safety Code which pertain to denial of certificates and permits, notwithstanding the fact that the individual has otherwise satisfied the requirements of this section.

~~Note: Authority cited: Section 25668(a), Health and Safety Code. Reference: Section 25668(e), Health and Safety Code.~~

Note: Authority cited: Sections 114870(a) and 131200, Health and Safety Code. Reference: Sections 107111, 114870(e) and (f), 131050, 131051 and 131052, Health and Safety Code.

**§ 30467. Certification of Qualified Licentiates, X-ray Bone Densitometry Supervisor and Operator Permit Requirements and Scope of Permit.**

~~An applicant who is certified by the American Board of Radiology or the American Osteopathic Board of Radiology, upon submission of an application, fee and documentary evidence of board certification, shall be issued a radiology supervisor and operator certificate.~~

(a) Except as provided in subsection (c), any licensed physician and surgeon or osteopathic physician and surgeon who uses or supervises the use of an X-ray bone densitometer (XBD) shall possess an X-ray bone densitometry supervisor and operator permit. The permit shall be valid only for the particular bone densitometer the physician and surgeon was trained to use, and for any other XBD that meets all of the following criteria only if the physician and surgeon has completed training, as specified in section 30466(c)(3)(A), for the use of that particular XBD. The authorized activity, as specified in section 30461(e), covered by the permit shall be limited to the use of an XBD that:

(1) Does not require user intervention for calibration;

(2) Does not provide an image for diagnosis; and

(3) Is used only to estimate bone density of the heel, wrist, or finger of the patient.

(b) The physician and surgeon shall, upon request, provide evidence of training pursuant to section 30466(c)(3)(A) for any XBD used or supervised by the physician and surgeon.

(c) An X-ray bone densitometry supervisor and operator permit is not required of any licensed physician and surgeon who holds a current and valid radiology supervisor and operator certificate or radiography supervisor and operator permit.

Note: Authority cited: Sections 114870 and 131200, Health and Safety Code. Reference: Sections 114870(f), 131050, 131051 and 131052, Health and Safety Code.

~~Note: Authority cited: Section 25668(a), Health and Safety Code. Reference: Section 25699.1, Health and Safety Code.~~

**§ 30468. Acceptable Applications Licentiate Certificate or Permit Validity.**

~~The Department considers an application for a licentiate certificate or permit acceptable if:~~

~~(a) Application is made on forms furnished by the Department.~~

~~(b) Fee is paid pursuant to Section 30408, and~~

~~(c) Evidence is provided that the applicant has one of the following valid California healing arts licenses:~~

~~(1) Physician and surgeon.~~

~~(2) Osteopathic physician and surgeon.~~

~~(3) Podiatrist.~~

~~(4) Chiropractor.~~

Certificates or permits issued pursuant to section 30466 are valid up to and including the date of expiration stated on the certificate or permit provided that the holder's California healing arts license is current and valid. If the holder's healing arts license expires or becomes invalid prior to the expiration date on the issued certificate or permit, the certificate or permit shall be invalid pending renewal or reinstatement of the holder's healing arts license.

~~Note: Authority cited: Section 25668(a), Health and Safety Code. Reference: Section 25668(e), Health and Safety Code.~~

Note: Authority cited: Sections 114870 and 131200, Health and Safety Code. Reference: Sections 114870(f), 131050, 131051 and 131052, Health and Safety Code.