

1 21 NCAC 16B .0501 is amended with changes as published in 40:18 NCR 1483-84 as follows:

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3 **21 NCAC 16B .0501 DENTAL LICENSURE BY CREDENTIALS**

4 (a) Except for instructors applying under Rule .0502 of this Section, an applicant for a dental license by credentials
5 shall submit to the Board:

- 6 (1) a notarized application form provided by the Board at www.ncdentalboard.org that includes the
7 information and materials required by Rule .0301(a) of this Subchapter;
- 8 (2) the non-refundable licensure by credentials fee set forth in 21 NCAC 16M .0101;
- 9 (3) an affidavit from the applicant stating for the five year period set out in G.S. 90-36(c)(1):
- 10 (A) the dates that and locations where the applicant has practiced dentistry;
- 11 (B) that the applicant has provided at least 5,000 hours of clinical care to patients, patients, not
12 including postgraduate training, residency programs, or an internship; [internship, except
13 that applicants] Applicants applying under G.S. 90-36(b1)(2) may rely upon the hours of
14 clinical care provided to patients during their participation in an advanced dental education
15 program to meet the 5,000-hour requirement of this Part;
- 16 (C) that the applicant has held an active, unrestricted dental license issued by another U.S. state
17 or U.S. territory, without any period of interruption; and
- 18 (4) a statement disclosing and explaining any investigations, malpractice claims, or state or federal
19 agency complaints, judgments, or settlements that are related to licensure and are not disclosed
20 elsewhere in the application.

21 (b) In addition to the requirements of Paragraph (a) of this Rule, an applicant for a dental license by credentials shall
22 request the applicable entity to send the following required information or documents, in a sealed envelope or via
23 secure electronic transmission, directly from the entity to the Board office:

- 24 (1) the applicant's official transcripts from a dental school or college accredited by the Commission on
25 Dental Accreditation of the American Dental Association ("CODA") showing the applicant
26 graduated with a DDS or DMD ~~degree; degree, except that for applicants applying under G.S. 90-~~
27 36(b1)(2), a copy of the applicant's general dental degree and the applicant's official transcripts from
28 an advanced dental education program accredited by CODA that issued either a certificate or a
29 degree to the applicant;
- 30 (2) a certificate of the applicant's licensure status from the dental regulatory authority or other
31 occupational or professional regulatory authority and a disclosure of any disciplinary action taken
32 or investigation pending, from all licensing jurisdictions where the applicant holds or has ever held
33 a dental license or other occupational or professional license;
- 34 (3) scores from:
- 35 (A) the National Board Dental Examination administered by the Joint Commission on National
36 Dental Examinations; and

1 (B) a clinical examination accepted by the Board based on the criteria set out in Rule .0303(d)
2 of this Subchapter;

3 (4) a report of any pending or final malpractice actions against the applicant verified by any malpractice
4 insurance carrier covering the applicant; and

5 (5) a letter of coverage history from all current and all previous malpractice insurance carriers covering
6 the applicant.

7 (c) An application shall be complete when the Board receives all information and documentation set forth in
8 Paragraphs (a) and (b) of this Rule and the applicant's passing scores on all examinations required by this Rule. Partial
9 applications that are not completed within one year of the date the first document is submitted to the Board shall be
10 disregarded as expired without a refund of the application fee.

11 (d) An applicant for dental licensure by credentials shall pass the Board's written examinations in sterilization and
12 jurisprudence as set out in Rule .0303(a) of this Subchapter. Individuals who do not pass either written examination
13 after three attempts within one year in accordance with Rule .0317(b) of this Subchapter shall not be eligible for
14 reexamination under Rule .0317(c) of this Subchapter and may not reapply for licensure by credentials.

15 (e) If an applicant graduated with a certificate or a degree from a CODA-accredited advanced dental education
16 program, the applicant shall be subject to all the requirements of this Rule, except:

17 (1) the applicant is not required to hold a dental license issued by any U.S. state or territory; and

18 (2) the applicant shall satisfy the educational credentials requirement set out in Subparagraph (b)(1) of
19 this Rule by requesting the applicable entity to send directly to the Board office, in a sealed envelope
20 or via secure electronic transmission:

21 (A) official transcripts from any school or college showing the applicant graduated with a
22 general dental degree; and

23 (B) official transcripts from a school or college showing the applicant graduated with a
24 certificate or a degree from a CODA-accredited advanced dental education program in the
25 school.

26 (f) Any applicant who changes his or her address shall notify the Board office in writing within 10 business days.

27 (g) Any license obtained through fraud or by any false representation shall be revoked.

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29 *History Note: Authority G.S. 90-28; 90-36; 90-41;*

30 *Temporary Adoption Eff. January 1, 2003;*

31 *Eff. January 1, 2004;*

32 *Recodified from 21 NCAC 16B .0401 Eff. March 1, 2006;*

33 *Amended Eff. September 1, 2014; February 1, 2010;*

34 *Pursuant to G.S. 150B-21.3A, rule is necessary without substantive public interest Eff. January 9,*
35 *2018;*

36 *Amended Eff. _____; December 1, 2023; March 1, 2020.*

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1 21 NCAC 16H .0105 is amended as published in 40:18 NCR 1485-87 as follows:

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3 **21 NCAC 16H .0105 DENTAL RADIOLOGY COURSE AND EXAMINATION REQUIREMENTS**

4 (a) If a dental radiology course and the course's final examination meet the requirements of this Rule, the Board will
5 recognize the course and final examination as satisfying the dental radiology training and equivalency examination
6 requirements set out in G.S. 90-29(c)(12).

7 (b) For the Board to recognize a dental radiology course and its final examination:

8 (1) The course shall include at least 7 hours of didactic, lecture-based instruction and at least 14 hours
9 of laboratory instruction.

10 (2) The course curriculum shall include instruction and training in clinical dental radiology, in the
11 production and use of dental x-rays, and on digital x-ray equipment. The course shall enable the
12 student to:

13 (A) identify in sequence the steps necessary for operating dental x-ray equipment;

14 (B) identify the requirements of a diagnostic digital image;

15 (C) differentiate the effect of variations in amperage, kilo-voltage, distance, and exposure time
16 on the resulting digital images;

17 (D) identify the terms used to measure radiation;

18 (E) establish guidelines for maintaining radiation safety and the ALARA ("as low as
19 reasonably achievable") principle;

20 (F) follow principles of radiologic health practices and radiation biology;

21 (G) identify radiation safety techniques and monitoring devices;

22 (H) identify the parts and identification marks on dental x-ray sensors;

23 (I) identify and compare intraoral sensors according to size and customary usage;

24 (J) identify methods of sensor handling and storage;

25 (K) identify and perform in sequence the steps in processing digital images;

26 (L) differentiate between preliminary interpretation and diagnosis of the digital images;

27 (M) identify the anatomical landmarks of the face and skull;

28 (N) identify any dental radiograph according to its location in the maxilla or mandible, and
29 position it on a digital image mount;

30 (O) identify the types of radiographic errors caused by faulty exposure techniques;

31 (P) identify the types of radiographic errors caused by incorrect digital mount positioning and
32 angulation of the central ray;

33 (Q) identify the types of radiographic errors caused by faulty digital processing techniques;

34 (R) identify the conditions that cause digital images to be fogged;

35 (S) identify the advance preparations necessary before exposing digital images;

36 (T) carry out the task of digital image exposure to completion;

- 1 (U) use the paralleling technique to produce digital images of diagnostic quality addressing
2 contrast, density, and definition;
- 3 (V) explain the principles of digital imaging and quality assurance;
- 4 (W) identify errors when using digital imaging in technique and processing;
- 5 (X) explain the utilization of beam aligning devices; and
- 6 (Y) describe the use of hand-held radiation exposure devices following guidelines from the
7 Radiation Protection Section of the Department of Health and Human Services, Radiology
8 Compliance Branch ("Radiation Protection Section"), which are incorporated by reference,
9 including subsequent amendments and editions, and are available at no cost online at
10 www.ncradiation.net/Xray/dentdose.htm.
- 11 (3) The laboratory portion of the course shall have no more than six students per instructor, and shall
12 include practice on dental radiography manikins. Students shall not practice on peer students unless
13 the unit is turned off and all requirements of the Board's sterilization and infection control rule, 21
14 NCAC 16J .0103, are satisfied. Students shall be required to achieve a passing score of at least 80
15 percent on a written examination on radiation safety prior to taking radiographs.
- 16 (4) To complete the course, students shall be required to achieve a passing score of at least 80 percent
17 on a written examination upon completion of the didactic, lecture-based portion of the course and
18 to achieve a passing score of at least 80 percent on a final laboratory examination. The final
19 laboratory examination shall be conducted on a manikin and include completion of a full mouth
20 series.
- 21 (5) The facility used as the training location for the course shall:
- 22 (A) assume all overhead costs involved in offering the course;
- 23 (B) comply with the Board's rules regarding sanitation, sterilization, and infection control set
24 out in 21 NCAC 16J, the applicable guidelines of the Radiation Protection Section, and the
25 OSHA guidelines and standards related to dentistry, which are incorporated by reference,
26 including subsequent amendments and editions, and are available at no cost online at
27 www.osha.gov/dentistry/standards;
- 28 (C) provide access to a room large enough to accommodate the number of participants for
29 lecture purposes;
- 30 (D) have the number of x-ray machines necessary based on the course curriculum and
31 enrollment to ensure there are no more than two students per machine; and
- 32 (E) have facilities for digital radiography.
- 33 (6) The didactic and laboratory portions of the course shall be taught by:
- 34 (A) an instructor of dental radiography at an institution accredited by the Commission on
35 Dental Accreditation ("CODA"), a list of which is available at no cost at www.ada.org/coda
36 and is incorporated by reference, including subsequent amendments and editions; or

1 (B) an instructor who has successfully completed a Board-approved radiology instructor course
2 set forth in 21 NCAC 16H.0106 ~~an instructor who has received a certification to teach~~
3 ~~dental radiography from a CODA-accredited institution,~~ and has completed three hours of
4 continuing education in the area of radiology every other year. The continuing education
5 courses shall be offered by Board-approved continuing education course sponsors as set
6 out in 21 NCAC 16I .0202 or 21 NCAC 16R .0202.

- 7 (7) The course sponsor shall provide students with all supplies.
8 (8) Course advertising shall comply with the Board's rules regarding advertisement of dental services
9 set out in 21 NCAC 16P.

- 10 (c) A course sponsor seeking Board recognition of a dental radiology course shall submit to the Board office:
11 (1) the course outline, syllabus, and handouts;
12 (2) slides and other lecture materials;
13 (3) examinations and grading criteria; and
14 (4) the name, resume, and verification of credentials satisfying Subparagraph (b)(6) of this Rule for all
15 course instructors.

16 (d) After the course sponsor submits all the information and documents required by Paragraph (c) of this Rule, the
17 course will be reviewed by the Board for compliance with this Rule at the next scheduled Board meeting. The Board
18 may delay reviewing a course until a later meeting if the Board's workload makes the review impracticable. If the
19 Board delays reviewing a course, it shall notify the course sponsor. A course shall be recognized by a majority vote
20 of the Board. A list of recognized courses is available on the Board's website at www.ncdentalboard.org.

21 (e) Upon receipt of evidence that a previously recognized course is not in compliance with this Rule, the Board will
22 notify the course sponsor in writing of each item of noncompliance. Within 30 days from the date of the notice of
23 noncompliance, the course sponsor shall provide a written response to the Board office which shall respond to each
24 item of noncompliance. The response shall provide documentation of corrections made, and shall show each item is
25 in compliance with this Rule. If the course sponsor fails to respond or correct noncompliance, the Board's recognition
26 of the course shall be withdrawn. As of the date recognition is withdrawn, the course and its examination shall not
27 satisfy the dental radiology training and equivalency examination requirements set out in G.S. 90-29(c)(12).

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29 *History Note: Authority G.S. 90-29(c)(12); 90-48;*
30 *Eff. July 1, ~~2023-2023~~;*
31 *Amended Eff. _____.*
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1 21 NCAC 16H .0106 is adopted as published in 40:18 NCR 1487 as follows:

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3 **21 NCAC 16H .0106 DENTAL RADIOLOGY INSTRUCTOR COURSE REQUIREMENTS**
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5 (a) All instructors of a dental radiology course shall successfully complete a Board-approved instructor's course that
6 covers the following topics:

7 (1) foundational concepts of teaching including developing a syllabus, establishing course objectives,
8 adjusting to different learning styles, and developing grading criteria;

9 (2) a review of basic radiography, including:

10 (A) radiation history and physics;

11 (B) radiography techniques;

12 (C) radiography errors;

13 (D) radiography equipment, including hand-held devices;

14 (E) patient protection; and

15 (F) anatomy;

16 (3) a review of sanitation, sterilization, and infection control standards and techniques, including the
17 Rules in Subchapter 16J;

18 (4) guidance on educational activities designed for the laboratory portion of the dental radiography
19 course including demonstrations of shadow casting, paralleling technique, patient shielding and safe
20 operator distancing; evaluation of occupational dose limits, and labeling diagrams of radiography
21 equipment;

22 (5) administration of written examinations to students;

23 (6) examination of students' clinical skills in the laboratory including:

24 (A) evaluation and correction of student errors in radiographs;

25 (B) explanation of the physics and geometry of bisecting and paralleling techniques; and

26 (C) demonstration and explanation to students of inaccuracies in angulation;

27 (7) a review of the requirements set forth in the following:

28 (A) 21 NCAC 16H.0105 of this Section;

29 (B) 10A NCAC 15;

30 (C) The Radiation Protection Guide for medical, dental and veterinary arts published by the
31 Radiation Protection Section of the Division of Health Services of the North Carolina Department
32 of Health and Human Services available at no cost at
33 <https://radiation.ncdhhs.gov/xray/documents/healartsprog.pdf>;

34 (D) The Hand-Held Dental X-Ray Guide published by the Radiation Protection Section of the
35 Division of Health Services of the North Carolina Department of Health and Human Services
36 available at no cost at <https://radiation.ncdhhs.gov/xray/documents/handhelddentgud.pdf>; and

1 (E) Entrance Skin Exposure Facts - Dental published by the Radiation Protection Section of the
2 Division of Health Services of the North Carolina Department of Health and Human Services
3 available at no cost at <https://radiation.ncdhhs.gov/xray/documents/eseguide.pdf>

4 (b) The instructor course may apply toward fulfillment of the continuing education requirements, including the
5 requirements of 21 NCAC 16H.0105(b)(6)(B), and all existing dental radiology instructors must successfully complete
6 the instructor course on or before December 31, 2028.

7 (c) Beginning on January 1, 2029, all instructors must complete a Board-approved instructor’s course before teaching
8 a dental radiology course.

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10 History Note: Authority G.S. 90-29(c)(12); 90-48;

11 Eff. _____
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1 21 NCAC 16U .0204 is amended as published in 40:18 NCR 1484-85 as follows:

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21 NCAC 16U .0204 SETTLEMENT CONFERENCES

(a) A settlement conference shall not be conducted unless the Respondent agrees to participate and to waive any objection to the Board members being ~~exposed to~~ provided a forecast of the evidence.

(b) A settlement conference shall be conducted before the Board or a panel of the Board appointed by the President. At the settlement conference, ~~a Board investigator~~ the Board's investigative panel shall summarize the ~~circumstances~~ information obtained during the course of the investigation and present a forecast of the Board's evidence. The Respondent shall have an opportunity to forecast his or her evidence. ~~Forecasts of the evidence may be presented orally or in writing and exhibits may be presented. Witnesses may forecast their own testimony but shall not be sworn nor cross examined.~~ The settlement conference shall not be recorded nor open to the public. ~~The allowed time for initial presentations shall be agreed upon by counsel ten days prior to the conference, subject to approval by the presiding Board member.~~

(c) If the Board ~~deems~~ determines that sanctions, discipline, or other action is ~~are appropriate~~ necessary, a Consent Order or ~~letter of reprimand~~ other written disposition shall be prepared and proposed to Respondent. ~~Should~~ If the Respondent ~~reject~~ rejects the ~~terms of the proposed~~ Consent Order or other disposition, ~~letter of reprimand~~, a contested case hearing ~~may~~ shall be scheduled.

History Note: Authority G.S. 90-28; 90-41; 90-41.1; 90-48; 90-223; 90-229; 90-231; 150B-41; Eff. October 1, 1996; Pursuant to G.S. 150B-21.3A, rule is necessary without substantive public interest Eff. January 9, 2018- 2018; Amended Eff. _____.