GENERAL ASSEMBLY OF NORTH CAROLINA SESSION 2011

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HOUSE DRH30232-LUfqq-90 (03/23)

Short Title:	Establish Radiologic Technicians Licensure.	(Public)
Sponsors:	Representatives Insko and Murry (Primary Sponsors).	
Referred to:		

A BILL TO BE ENTITLED

2	AN ACT PROV	IDING FOR THE REGULATION AND LICENSING OF PERSONS WHO
3	PERFORM A	AND ADMINISTER MEDICAL IMAGING AND RADIATION THERAPY
4	PROCEDUR	ES.
5	The General Asso	embly of North Carolina enacts:
6	SECT	TON 1. Chapter 90 of the General Statutes is amended by adding a new
7	Article to read:	
8		" <u>Article 43.</u>
9		" <u>Radiologic Technicians.</u>
10	" <u>§ 90-735. Title</u>	
11	This Article r	nay be cited as the 'North Carolina Consistency, Accuracy, Responsibility and
12	Excellence (CAR	E) in Medical Imaging and Radiation Therapy Act.
13	" <u>§ 90-736. Find</u> i	ings.
14	The General	Assembly finds and declares that the citizens of this State are entitled to the
15		tion practicable from the harmful effects of improperly performed medical
16		ation therapy procedures and that protection and quality can be increased by
17		riate education and licensure of persons operating equipment used for medical
18		iation therapy procedures. Therefore, it is essential to establish standards of
19		se operators and to provide for appropriate examination and licensure.
20	" <u>§ 90-737. Defir</u>	
21	The following	g definitions apply in this Article:
22	<u>(1)</u>	Board. – The Medical Imaging and Radiation Therapy Board of Examiners.
23	<u>(2)</u>	Cardiovascular invasive specialist A person other than a licensed
24		practitioner who performs fluoroscopy to visualize cardiac or vascular
25		anatomy. Individuals licensed as a cardiovascular invasive specialist may not
26		perform computed tomography, magnetic resonance imaging,
27		mammography, radiation therapy, or radiography.
28	<u>(3)</u>	License A certificate issued by the Board authorizing the licensee to use
29		radioactive materials or medical imaging or radiation therapy equipment on
30		humans for diagnostic or therapeutic purposes in accordance with the
31		provisions of this Article.
32	<u>(4)</u>	Licensed practitioner A person licensed to practice medicine, dentistry,
33		podiatry, or chiropractic in this State.
34	<u>(5)</u>	Limited X-ray machine operator A person other than a licensed
35		practitioner who performs limited diagnostic radiographic imaging



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1		procedures on specific parts of the human anatomy, in	ncluding chest, spine,
2		skull/sinus, podiatric, or extremity radiography. Indiv	
3		limited X-ray machine operator may not perform co	
4		fluoroscopy, magnetic resonance imaging, mamme	
5		involving contrast media, radiation therapy, or mobile in	
6	<u>(6)</u>	Magnetic resonance technologist. – A person, oth	
7	<u>, , , , , , , , , , , , , , , , , , , </u>	practitioner, who performs magnetic resonance ima	
8		purposes.	
9	<u>(7)</u>	Medical imaging. – Any procedures or article inter	nded for use in the
10	<u> </u>	diagnosis or visualization of disease or other medical	
11		but not limited to, diagnostic X-rays, nuclear me	
12		magnetic resonance, sonography, and other procedures.	± •
13	<u>(8)</u>	Medical physicist. – A person who is certified by the	
14	<u>(0)</u>	Radiology, American Board of Medical Physics, Amer	
15		Physics, American Board of Science in Nuclear Me	
16		College of Physics in Medicine in radiological ph	
17		subspecialties of radiological physics.	ysies of one of the
18	(9)	Nuclear medicine technologist. – A person, oth	er than a licensed
19	<u>\>7</u>	practitioner, who uses radiopharmaceutical agents on h	
20		or therapeutic purposes.	
21	<u>(10)</u>	Persons who administer medical imaging or radiation t	therapy procedures –
22	<u>(10)</u>	Any person, other than a licensed practitioner, who	
23		imaging or radiation therapy procedures to other	
24		purposes, and includes radiographers, radiation therapi	-
25		technologists, sonographers, magnetic resona	
26		cardiovascular-invasive specialists, and limited X-ray m	•
27	<u>(11)</u>	Radiation therapist. – A person, other than a licens	-
28		administers radiation to humans for therapeutic purpose	
29	<u>(12)</u>	Radiographer A person, other than a license	d practitioner, who
30		administers radiation to humans for diagnostic or interv	entional purposes.
31	<u>(13)</u>	Radiologist A physician certified by or board-eligit	ole to be certified for
32		the American Board of Radiology, the American C	Osteopathic Board of
33		Radiology, the British Royal College of Radiology, or	the Canadian College
34		of Physicians and Surgeons in that medical specialty.	
35	<u>(14)</u>	Sonographer A person, other than a licensed practi	tioner, who performs
36		sonography, ultrasound, or echocardiography for diag	nostic or therapeutic
37		purposes.	
38		<u>nse required; exemptions.</u>	
39		after October 1, 2012, no person shall administer of	
40		or radiation therapy procedures on humans for diag	• • • •
41		ned in this Article or otherwise indicate or imply that the	
42		cal imaging or radiation therapy procedures unless that	t person is currently
43		ded under this Article.	
44		rovisions of this Article shall not apply to the following:	11 .1 .1
45	<u>(1)</u>	A licensed practitioner administering medical imaging	g or radiation therapy
46	$\langle 0 \rangle$	procedures.	1 (1 1 1 1
47	<u>(2)</u>	A licensed dental assistant or dental hygienist performin	ng dental radiography
48	(2)	procedures.	onton
49 50	$\frac{(3)}{(4)}$	A resident physician licensed under Article 1 of this Ch	
50	<u>(4)</u>	A student enrolled in and attending a school or of astronauthy abiropractic podiatry dentiatry or madical	-
51		osteopathy, chiropractic, podiatry, dentistry, or medical	maging or radiation

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	therapy who performs medical imaging or radiation therapy procedures on
	humans while under the supervision of a licensed practitioner, radiographer,
	radiation therapist, nuclear medicine technologist, sonographer, magnetic
	resonance technologist, or cardiovascular invasive specialist holding a
	license under this Article.
<u>(5)</u>	A person administering medical imaging or radiation procedures who is
	employed by the United States government when performing duties
110 00 5 30 C	associated with that employment.
	e of practice; limitations.
	Board shall establish licensure standards for a radiographer, radiation therapist,
	ne technologist, cardiovascular invasive specialist, magnetic resonance
	ographer, and limited X-ray machine operator.
	rson holding a license under this Article may use radioactive substances or
	ng ionizing or nonionizing radiation for medical imaging and radiation therapy
*	umans for diagnostic or therapeutic purposes by prescription of a licensed
	, provided the application of a substance or the use of equipment is limited in a lunder this Article.
	elated specifically to performance of computed tomography, the following
limitations shall	
<u>(1)</u>	Individuals licensed to perform radiography may perform computed
<u>(1)</u>	tomography medical imaging.
(2)	Individuals licensed to perform radiation therapy may only perform
<u>(2)</u>	computed tomography for treatment simulation.
(3)	Individuals licensed to perform nuclear medicine may only perform
<u>(0)</u>	computed tomography for attenuation correction.
<u>(4)</u>	Individuals licensed to perform radiation therapy, nuclear medicine
<u></u>	technology, magnetic resonance technology, or sonography who are certified
	in computed tomography by the American Registry of Radiologic
	Technologists may perform computed tomography medical imaging.
" <u>§ 90-740. Med</u>	ical Imaging and Radiation Therapy Board of Examiners.
(a) Creat	ion The North Carolina Medical Imaging and Radiation Therapy Board of
Examiners is cre	ated.
	position and Terms. – The Board shall consist of 11 members who shall serve
	The Board members shall be appointed by the Governor and the initial Board
	e appointed on or before October 1, 2011, as follows:
<u>(1)</u>	One member who is a radiographer who shall serve for a three-year term.
<u>(2)</u>	One member who is a nuclear medicine technologist who shall serve for a
	two-year term.
<u>(3)</u>	One member who is a radiation therapist who shall serve for a one-year
	term.
$\frac{(4)}{(5)}$	One member who is a sonographer who shall serve for a three-year term.
<u>(5)</u>	One member who is a magnetic resonance technologist who shall serve for a
	two-year term.
<u>(6)</u>	One member who is a cardiovascular invasive specialist who shall serve for
(7)	<u>a one-year term.</u>
<u>(7)</u>	One member who is a limited X-ray machine operator who shall serve for a three ways term
(0)	three-year term.
$\frac{(8)}{(9)}$	One member who is a radiologist who shall serve for a two-year term.
<u>(9)</u>	One member who is a radiation oncologist who shall serve for a one-year
	term.

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1 2	<u>(10)</u>	One member who is a medical physicist who shall se	erve for a three-year
2 3	(11)	term.	
	$\frac{(11)}{1}$	One public member who shall serve for a two-year term.	-
4		piration of the terms of the initial Board members, membe	* *
5		ee years and shall serve until their successors are appoint	ed. No member may
6		two consecutive terms.	
7		fications. – Except for the public member of the Board, e	
8		a valid license issued by the Board in the category of licen	
9	· • •	eside or be employed in North Carolina, and shall remain i	•
10		with the Board as a licensee during their terms. The publ	
11		State and shall not be (i) a currently or actively licensed	•
12	-	inisters medical imaging or radiation therapy procedures u	
13		ncies. – A vacancy shall be filled in the same man	
14		d shall be filled within 45 days after the vacancy occur	* *
15		serve the remainder of the unexpired term and until their s	successors have been
16	duly appointed a	•	
17		oval. – The Board may remove any of its members the	
18		r unprofessional conduct. A member subject to disciplina	
19		e disqualified from participating in the official business of	t the Board until the
20	charges have bee		
21		pensation. – Each member of the Board shall rece	eive per diem and
22		or travel and subsistence as provided in G.S. 93B-5.	
23		ers. – The officers of the Board shall be a chair, who sha	
24		ice-chair, and other officers deemed necessary by the Bo	
25		Article. All officers shall be elected annually by the Boar	d for one-year terms
26		ntil their successors are elected and qualified.	1 , 1 ,
27		ings. – The Board shall hold at least two meetings ea	-
28		review the standards and rules for improving the admin	
29		ntion therapy procedures. The Board shall establish the pr	
30	-	onducting regular and special meetings. A majority	of Board members
31 32	<u>constitutes a que</u>		
32 33		ers of the Board. nall have the following powers and duties:	
33 34		Administer this Article.	
34 35	$\frac{(1)}{(2)}$	Issue interpretations of this Article.	
35 36	$\frac{(2)}{(2)}$	· · · · · · · · · · · · · · · · · · ·	at to comme out the
30 37	<u>(3)</u>	Adopt, amend, or repeal rules as may be necessar provisions of this Article.	ly to carry out the
38	(A)	Employ and fix the compensation of personnel that the	Roard datarminas is
30 39	<u>(4)</u>	necessary to carry into effect the provisions of this Ar	
39 40			ticle and men other
40 41	(5)	expenses necessary to effectuate this Article.	a of applicants for
41	<u>(5)</u>	<u>Examine and determine the qualifications and fitnes</u> licensure, renewal of licensure, and reciprocal licensure.	* *
	(6)	Issue, renew, deny, suspend, or revoke licenses	
43	<u>(6)</u>		and carry out any
44 45	(7)	disciplinary actions authorized by this Article.	as deemed needsom
45	<u>(7)</u>	Set fees for licensure, license renewal, and other service	es deemed necessary
46 47	(0)	to carry out the purposes of this Article.	whather violations of
47 48	<u>(8)</u>	Conduct investigations for the purpose of determining v this Article or grounds for disciplining licensees exist	whether violations of
48 49	(0)	this Article or grounds for disciplining licensees exist. Conduct administrative hearings in accordance with C	Thantar 150P of the
49 50	<u>(9)</u>	General Statutes when a contested case, as defined in G	-
50 51		under this Article.	1.5. 150D-2(2), allses
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1	<u>(10)</u>	Maintain a record of all proceedings and make availab	ble to licensees and
2	<u>,</u>	other concerned parties an annual report of all Board action	
3	(11)	Develop standards and adopt rules for the improvement of	
4	<u>(/</u>	of medical imaging or radiation therapy procedures in this	
5	(12)	Adopt a seal containing the name of the Board for use	
6	(12)	official reports issued by it.	on un neenses und
7	"8 90-742 Real	urements for licensure.	
8		Board shall admit to examination for licensure any application	ant who shall nav a
9	nonrefundable f	ee established by the rule of the Board and submit sat	tisfactory evidence,
10	-	or affirmation, that the applicant meets the following criteria	<u>a:</u>
11	$\frac{(1)}{(2)}$	At the time of the application is at least 18 years of age.	
12	<u>(2)</u>	Has successfully completed a four-year course of stu	
13		school approved by the State Board of Education, or p	bassed an approved
14		equivalency test.	1 .
15		dition to the requirements of subsection (a) of this section,	• •
16		se in a specific area of medical imaging or radiation therap	y shall comply with
17	the following rec		
18	<u>(1)</u>	Each applicant for a license as a radiographer, radiation	
19		resonance technologist, cardiovascular invasive speciali	• •
20		nuclear medicine technologist shall have satisfactorily co	-
21		study in radiography, radiation therapy, magnetic reso	•••
22		cardiovascular invasive specialist, sonography, or	
23		respectively, or its equivalent to be determined by the Bo	
24	<u>(2)</u>	The curriculum for each course of study shall be no les	
25		standards approved by the Joint Review Committee	
26		Radiologic Technology, Joint Review Committee on	
27		Technology, Commission on Accreditation of Allied	
28		Programs, or any other appropriate accreditation agence	
29		Board, provided the standards are not in conflict with Boa	· · ·
30		dition to the requirements of subsection (a) of this section,	
31		ited X-ray machine operator shall comply with the followir	•
32	<u>(1)</u>	Have completed a course of study in limited X-ray	
33		incorporating the American Society of Radiologic Tec	
34		Limited Scope Radiography Educational Curriculum appr	roved by the Board.
35	<u>(2)</u>	The scope of each permit is limited as follows:	
36		a. <u>Chest radiography permit: radiography of the</u>	thorax, heart, and
37		lungs.	
38		b. Extremities radiography permit: radiography of t	the upper and lower
39		extremities, including the pectoral girdle.	
40		c. Spine radiography permit: radiography of the ver	
41		d. <u>Skull/Sinus permit: radiography of the skull and t</u>	
42		e. <u>Podiatric permit: radiography of the foot, ankle, a</u>	and lower leg below
43		the knee.	
44		Board shall establish criteria and standards within the St	
45		dical imaging and in radiation therapy and approve the	ese programs upon
46		riteria and standards have been met.	
47	" <u>§ 90-743. Exar</u>		
48		cants for licensure as a radiographer, radiation therapist	
49 50		gnetic resonance technologist, cardiovascular invasive spec	
50		t X-ray operator shall be required to pass an examination	on approved by the
51	Board.		

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1	(b) The Board shall accept current registration by the American Registry of Radiologic
2	Technologists, Nuclear Medicine Technologist Certification Board, Cardiovascular
3	Credentialing International, American Registry of Diagnostic Medical Sonography, or other
4	recognized national voluntary credentialing bodies, provided that the standards of that body are
5	at least as stringent as those established by the Board.
6	(c) The Board shall use a limited X-ray machine operator examination administered by
7	the American Registry of Radiologic Technologists for persons applying for a limited permit in
8	chest, extremity, skull/sinus, podiatric, or spine radiography provided that the standards of that
9	body are at least as stringent as those established by the Board.
10	"§ 90-744. Issuance of license; temporary license; display of license.
11	(a) Upon payment of the appropriate fee, the Board may issue a license to each
12	applicant who meets the requirements for licensure specified in this Article.
13	(b) The Board may issue a temporary license to any person whose licensure or license
14	renewal may be pending or when issuance may be justified by special circumstances. A
15	temporary license shall be issued only if the Board finds that it will not violate the purpose of
16	this Article or endanger the public health and safety. A temporary license shall expire 90 days
17	after the date of the next examination if the applicant is required to take the examination. If the
18	applicant does not take the examination on the scheduled date, the temporary license shall
19	expire. In all cases, a temporary license shall expire when the determination is made either to
20	issue or deny the applicant a regular license and in no event shall a temporary license be issued
21	for a period longer than 180 days.
22	(c) Any person issued a license under this Article shall display the official license
23	document or a verified copy in each place of regular employment.
24	" <u>§ 90-745. Program approval.</u>
25	(a) <u>A program approved by the Board in radiography, radiation therapy, nuclear</u>
26	medicine technology, magnetic resonance technology, cardiovascular invasive specialist,
27	sonography, or limited X-ray machine operation may be offered by a medical facility or
28	educational institution. The program shall be affiliated with one or more hospitals or clinics
29	that, in the opinion of the Board, shall provide the requisite clinical education.
30	(b) <u>Pursuant to rules adopted by the Board, the Board shall do the following:</u>
31	(1) Adopt procedures for an educational program to follow in making
32	application for approval by the Board.
33 34	(2) <u>Provide a process for review of approval by a recognized national voluntary</u> accrediting organization.
34 35	"§ 90-746. License renewal.
36	(a) Every license issued under this Article shall be renewed on or before January 1
30 37	every two years. The license shall be renewed upon the payment of a renewal fee if, at the time
38	of application for renewal, the applicant is not in violation of this Article, and has complied
39	with any continuing education requirements pursuant to rules adopted by the Board.
40	(b) As a condition of license renewal, each individual licensed as a radiographer,
41	radiation therapist, sonographer, magnetic resonance technologist, cardiovascular invasive
42	specialist, or nuclear medicine technologist shall be required to complete 24 hours of
43	continuing education as approved by the Board. Individuals licensed as limited X-ray machine
44	operators shall complete 12 hours of continuing education approved by the Board. A licensee is
45	not required to duplicate the continuing education hours submitted to the American Registry of
46	Radiologic Technologists (ARRT) for renewal.
47	(c) The Board shall notify a licensee at least 30 days in advance of the expiration of his
48	or her license. The licensee shall inform the Board of any change of the licensee's address. Each
49	licensee is responsible for renewing his or her license before the expiration date. Licenses that
50	are not renewed automatically lapse.

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1	(d) The H	Board may provide for the late renewal of an automatically laps	ed license upon
2		a reinstatement fee. No reinstatement renewal may be granted	-
3	years after a lice	nse expires.	
4	" <u>§ 90-747. Reci</u>	procity.	
5		nay, upon application and payment of proper fees, grant a lice	-
6		his State and has been licensed, certified, or registered to perfor	
7		g or radiation therapy procedures in another jurisdiction if th	
8		mpetency are substantially equivalent to those provided in	this Article in
9		rules adopted by the Board.	
10	" <u>§ 90-748. Fees</u>		
11		ees shall be set by the Board pursuant to rules adopted under the set of the base of the b	
12		he Board shall be deposited in the name of the Board in finan	
13		e Board as official depositories and shall be used to pay all ex	penses incurred
14 15		ne purposes of this Article.	a annu ant tha
15		alaries, compensation, and expenses incurred or allowed to	
16 17		Article shall be paid by the Board exclusively out of the fees zed by this Article or funds received from other sources. In no	-
17		or other obligation of the Board be charged against the State treater	
18 19		iplinary authority.	<u>asury.</u>
20		Board may deny, suspend, revoke, or refuse to renew a lice	ense or impose
20		iditions on a license if the licensee or applicant for licensure	•
22	any of the follow	* *	<u>nus engagea m</u>
23	<u>(1)</u>	Obtaining a license by means of fraud, misrepresentation, or	concealment of
24	<u> </u>	material facts.	
25	(2)	Engaging in unprofessional conduct pursuant to rules esta	ablished by the
26		Board.	
27	<u>(3)</u>	Having been convicted of or pleaded guilty or nolo conten-	dere to a crime
28		involving moral turpitude or any crime which indicates that	the licensee or
29		applicant is unfit or incompetent to administer medical imag	ing or radiation
30		therapy procedures or that the licensee or applicant ha	as deceived or
31		defrauded the public.	
32	<u>(4)</u>	Engaging in any act or practice in violation of any of the pr	
33		Article or any rule adopted by the Board or aiding, abetting,	or assisting any
34		person in such a violation.	
35	<u>(5)</u>	Committing an act or acts of malpractice, gross negligence, or	-
36		in administering medical imaging or radiation therapy proced	
37	<u>(6)</u>	Practicing as a person licensed to administer medical imagination	ing or radiation
38	(7)	therapy procedures without a current license.	
39 40	$\frac{(7)}{(9)}$	Engaging in conduct that could result in harm or injury to the	-
40 41	<u>(8)</u>	Having a license issued under this Article revoked or susp dissiplingery action taken whether in this State or enother invis	
41 42	<u>(9)</u>	disciplinary action taken whether in this State or another juris Being unfit or incompetent to administer medical imagin	
42 43	<u>(9)</u>	therapy services by reason of deliberate or negligent act	-
43 44		regardless of whether actual injury to a patient is established.	<u>5 01 011115510115</u>
45	(b) The c	lenial, refusal to renew, suspension, revocation, or imposition	of probationary
46		a license may be ordered by the Board after a hearing held in a	
40 47	•	the General Statutes and rules adopted by the Board. An app	
48		rd for reinstatement of a revoked license if the revocation has b	
49		s after the date of the Board's order revoking the license.	
50		ation a misdemeanor.	

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1	Any person who violates any provision of this Article shall be guilty of a Class 1
2	misdemeanor. Each act of such unlawful practice shall constitute a distinct and separate
3	offense.
4	" <u>§ 90-751. Injunctive relief.</u>
	The Board may make application to any appropriate court for an order enjoining violations
	of this Article, and upon a showing by the Board that any person has violated or is about to
	violate this Article, the court may grant an injunction, restraining order, or take other
	appropriate action.
	" <u>§ 90-752. Civil penalties.</u>
	(a) <u>Authority to Assess Civil Penalties. – The Board may assess a civil penalty not in</u>
	excess of one thousand dollars (\$1,000) for the violation of any section of this Article or the
	violation of any rules adopted by the Board. The clear proceeds of any civil penalty assessed
	under this section shall be remitted to the Civil Penalty and Forfeiture Fund in accordance with
	<u>G.S. 115C-457.2.</u>
	(b) Consideration Factors. – Before imposing and assessing a civil penalty, the Board
	shall consider the following factors:
	(1) The nature, gravity, and persistence of the particular violation.
	(2) The appropriateness of the imposition of a civil penalty when considered
	alone or in combination with other punishment.
	(3) Whether the violation was willful and malicious.
	(4) Any other factors that would tend to mitigate or aggravate the violations
	found to exist.
	(c) Schedule of Civil Penalties. – The Board shall establish a schedule of civil penalties
	for violations of this Article and rules adopted by the Board.
	(d) Costs. – The Board may assess the costs of disciplinary actions against any person
	found to be in violation of this Article or rules adopted by the Board."
	SECTION 2. For a period not to exceed two years after this act becomes effective
	upon payment of the proper fee as established by the Board, an individual providing
	documentation of employment for two of the preceding three years as a radiographer, radiation
	therapist, nuclear medicine technologist, magnetic resonance technologist, cardiovascular
	invasive specialist, sonographer, or limited X-ray machine operator may be issued a license by
	the Medical Imaging and Radiation Therapy Board of Examiners (Board) created under
	G.S. 90-740, as enacted by Section 1 of this act, without having to pass an examination as
	required by G.S. 90-743, enacted by Section 1 of this act. Individuals applying for licensure
	pursuant to this section shall provide to the Board a statement of responsibility for the actions
	of the individual in the performance of medical imaging or radiation therapy procedures, a
	certificate of competence, and a list of medical imaging or radiation therapy procedures the
	individual is authorized to perform signed by the physician supervising the individual in the
	performance of medical imaging and radiation therapy procedures. Individuals registered with
	the American Registry of Radiologic Technologists (ARRT) do not need a certificate of
	competence.
	SECTION 3. This act is effective when it becomes law.