

09302009 SUMMARY PERSONNEL QUALIFICATIONS – MODERATE COMPLEXITY- PPM PROCEDURES

EDUCATION	TRAINING/EXPERIENCE	BOARD CERTIFIED/ELIGIBLE	REGULATION
<b>LABORATORY DIRECTOR</b>			
State Licensed Lab Director (N/A in TX)			493.1357 (a)
State Licensed Physician <b>MD, DO, DPM</b>			493.1357 (b)(1)
State Licensed Midlevel Practitioner <b>Nurse midwife Nurse practitioner Physician Assistant</b>			493.1357 (b)(2)
State Licensed Dentist <b>DDM, DDS</b>			493.1357 (b)(3)
<b>TESTING PERSONNEL</b>			
State Licensed Physician <b>MD, DO, DPM</b>			493.1363 (b)(1)
State Licensed Midlevel Practitioner <b>Nurse midwife Nurse practitioner Physician Assistant</b>			493.1363 (b)(2)
State Licensed Dentist <b>DDM, DDS</b>			493.1363 (b)(3)

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EDUCATION	TRAINING/EXPERIENCE	BOARD CERTIFIED/ELIGIBLE	REGULATION
<b>LABORATORY DIRECTOR</b>			
State Licensed Lab Director (N/A in TX) AND State Licensed Physician <b>MD, DO</b>	N/A	<b>Certified in Anatomic or Clinical Pathology</b> or both by the American Board of Pathology or the American Osteopathic Board of Pathology <b>OR</b> board eligible	493.1405 (b)(1)(ii)
	1 year directing or supervising non-waived testing <b>OR</b>	N/A	493.1405 (b)(2)(ii)(A)
	<b>Effective 09/01/93</b> , have at least 20 CME in laboratory practice defined in 493.1407 <b>OR</b>	N/A	493.1405 (b)(2)(ii)(B)
	Laboratory training during medical residency equivalent to 493.1405 (b)(2)(ii)(B)	N/A	493.1405 (b)(2)(ii)(C)
<b>PhD:</b> chemical, physical, biological, or clinical laboratory science	N/A	Certified by: American Board of Medical Microbiology, the American Board of Clinical Chemistry, the American Board of Bioanalysis, or the American Board of Medical Laboratory Immunology	493.1405 (b)(3)(i)
	1 year directing or supervising non-waived testing	N/A	493.1405 (b)(3)(ii)
<b>MASTER'S:</b> chemical, physical, biological, clinical laboratory science, or medical technology	1 year laboratory training or experience in non-waived testing <b>AND</b> 1 year of supervisory laboratory experience in non-waived testing	N/A	493.1405 (b)(4)(iii)
<b>BACHELOR'S:</b> chemical, physical, biological, clinical laboratory science, or medical technology	2 years laboratory training or experience in non-waived testing <b>AND</b> 2 years of supervisory laboratory experience in non-waived testing	N/A	493.1405 (b)(5)(iii)
Be <b>servicing as a Laboratory Director and</b> have been <b>previously qualified</b> or <b>could have qualified as a LD</b> on or before 02/28/92 under 493.1406.	N/A	N/A	493.1405 (b)(6)

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**493.1406 LABORATORY DIRECTOR QUALIFICATION ON OR BEFORE FEBRUARY 28, 1992**

EDUCATION	TRAINING/EXPERIENCE	BOARD CERTIFIED/ELIGIBLE	REGULATION
<b>LABORATORY DIRECTOR</b>			
State Licensed Lab Director (N/A in TX) AND State Licensed Physician <b>MD, DO</b>	N/A	<b>Certified in Anatomic or Clinical Pathology</b> or both by the American Board of Pathology or the American Osteopathic Board of Pathology <b>OR</b> board eligible	493.1406 (b)(1)
		<b>Certified in at least one of the laboratory specialties</b> by the American Board of Pathology or American Osteopathic Board of Pathology	493.1406 (b)(2)(i)
		<b>Certified by</b> the American Board of Medical Microbiology, the American Board of Clinical Chemistry, the American Board of Bioanalysis, <b>OR</b> other national accrediting board in one of the laboratory specialties	493.1406 (b)(2)(ii)
		<b>Certified by the American Society of Cytology OR</b> board eligible	493.1406 (b)(2)(iii)
	Subsequent to graduation, has had 4 or more years full time general laboratory training and experience <u>of which at least 2 years</u> were spent acquiring proficiency in one of the laboratory specialties	N/A	493.1406 (b)(2)(iv)
<b>DDS (Licensed)</b>	N/A	<b>ORAL PATHOLOGY ONLY</b> <b>Certified by</b> the American Board of Oral Pathology, American Board of Pathology , or the American Osteopathic Board of Pathology <b>OR</b> board eligible	493.1406 (b)(3)
<b>PhD:</b> chemical, physical, or biological science	N/A	Certified by: American Board of Medical Microbiology, the American Board of Clinical Chemistry, the American Board of Bioanalysis, or the American Board of Medical Laboratory Immunology	493.1406 (b)(4)(i)
	Subsequent to graduation, has had 4 or more years full time general laboratory training and experience <u>of which at least 2 years</u> were spent acquiring proficiency in one of the laboratory specialties	N/A	493.1406 (b)(4)(ii)
	<b>EDUCATION</b>	<b>TRAINING/EXPERIENCE</b>	<b>REGULATION</b>
With respect to individuals <b>first qualifying before 07/01/71</b> , had been responsible for the direction of a laboratory for 12 months between 07/01/61 and 01/01/68 <b>and</b>	Licensed <b>MD</b>	Subsequent to graduation had 4 years of pertinent full time laboratory experience	493.1406 (b)(5)(i)
	<b>MASTER'S:</b> chemical, physical, or biological sciences	Subsequent to graduation had 4 years of pertinent full time laboratory experience	493.1406 (b)(5)(ii)
	<b>BACHELOR'S:</b> chemical, physical, or biological science	Subsequent to graduation had 6 years of pertinent full time laboratory experience	493.1406 (b)(5)(iii)

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Continued, 493.1406 LABORATORY DIRECTOR QUALIFICATION ON OR BEFORE FEBRUARY 28, 1992

EDUCATION	TRAINING/EXPERIENCE	BOARD CERTIFIED/ELIGIBLE	REGULATION
	Achieved satisfactory grade on PHS examination on or before 07/01/70	N/A	493.1406 (b)(5)(iv)
	Qualify under State law to direct a laboratory in that State	N/A	493.1406 (b)(6)
<b>TECHNICAL CONSULTANT</b>			
State Licensed Technical Consultant (N/A in TX) AND State Licensed Physician MD, DO, DPM	N/A	Certified in <b>Anatomic or Clinical Pathology</b> or both by the American Board of Pathology or the American Osteopathic Board of Pathology <b>OR</b> board eligible	493.1411 (b)(1)(ii)
	1 year laboratory training or experience in the designated specialty/subspecialty for which TC is responsible	N/A	493.1411 (b)(2)(ii)
<b>PhD, MASTER'S:</b> chemical, physical, biological, clinical laboratory science	1 year laboratory training or experience in the designated specialty/subspecialty for which TC is responsible	N/A	493.1411 (b)(3)(ii)
<b>BACHELOR'S:</b> chemical, physical, biological, clinical laboratory science, or medical technology	2 years laboratory training or experience in the designated specialty/subspecialty for which TC is responsible	N/A	493.1411 (b)(4)(ii)
<b>CLINICAL CONSULTANT</b>			
Qualifies as a <b>LABORATORY DIRECTOR</b> under 493.1405 (b)(1), (2), or (3)(i)	N/A	N/A	493.1417 (a)
State Licensed Physician MD, DO, DPM	N/A	N/A	493.1417 (b)
<b>TESTING PERSONNEL</b>			
State Licensed Physician MD, DO OR <b>PhD, MASTER'S, BACHELOR'S:</b> chemical, physical, biological, clinical laboratory science, or medical technology	N/A	N/A	493.1423 (b)(1)
<b>ASSOCIATE degree:</b> chemical, physical, biological science, or medical laboratory technology	N/A	N/A	493.1423 (b)(2)
<b>HIGH SCHOOL DIPLOMA or equivalent</b>	Successfully completed 50 weeks U.S. military medical laboratory procedures training course and held position of Medical Laboratory Specialist (Laboratory Technician)	N/A	493.1423 (b)(3)
	Documentation of appropriate training prior to testing	N/A	493.1423 (b)(4)(ii)

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EDUCATION	TRAINING/EXPERIENCE	BOARD CERTIFIED/ELIGIBLE	REGULATION
<b>LABORATORY DIRECTOR</b>			
State Licensed Lab Director (N/A in TX) AND State Licensed Physician <b>MD, DO, DPM</b>	N/A	<b>Certified in Anatomic or Clinical Pathology</b> or both by the American Board of Pathology or the American Osteopathic Board of Pathology <b>OR</b> board eligible	493.1443 (b)(1)(ii)
	1 year laboratory training during medical residency	N/A	493.1443 (b)(2)(i)
	2 years experience directing or supervising high complexity testing	N/A	493.1443 (b)(2)(ii)
<b>PhD:</b> chemical, physical, biological, clinical laboratory science	N/A	<b>Certified by:</b> American Board of Bioanalysis, American Board of Clinical Chemistry, American Board of Forensic Toxicology, American Board of Histocompatibility and Immunogenetics, American Board of Medical Genetics American Board of Medical Laboratory Immunology, American Board of Medical Microbiology, National Registry for Clinical Chemists <b>or</b> other board deemed comparable by HHS	493.1443 (b)(3)(i)
	<b>Before 02/24/2003:</b> must have served or be serving as director of a laboratory performing high complexity testing <b>AND</b> 2 years of laboratory training or experience <b>AND</b> 2 years of laboratory experience directing or supervising high complexity testing.	N/A	493.1443 (b)(3)(ii)(B)
<b>On or before 02/28/92: be serving as a LABORATORY DIRECTOR and must have previously qualified or could have qualified as a LD under 493.1415 published 03/14/90.</b>	N/A	N/A	493.1443 (b)(4)
On or before 02/28/92 be qualified under state law to direct a laboratory in the state in which the lab is located	N/A	N/A	493.1443 (b)(5)
DDS (Licensed)	N/A	<b>For subspecialty of Oral Pathology only: be certified by the American Board of Oral Pathology, American Board of Pathology, or American Osteopathic Board of Pathology.</b>	493.1443 (b)(6)

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LD QUALIFICATIONS IF SERVING AS THE LD ON OR BEFORE FEBRUARY 28, 1992

493.1443 (b)(4)

EDUCATION	TRAINING/EXPERIENCE	BOARD CERTIFIED/ELIGIBLE	REGULATION
State Licensed Lab Director (N/A in TX) AND State Licensed Physician <b>MD, DO</b>	N/A	<b>Certified in Anatomic or Clinical Pathology</b> or both by the American Board of Pathology or the American Osteopathic Board of Pathology <b>OR</b> board eligible	493.1415 (b)(1) <i>from the 3/14/1990 Final Rule</i>
		Certified by the American Board of Pathology or American Osteopathic Board of Pathology in at least one of the laboratory specialties	493.1415 (b)(2)(i) <i>from the 3/14/1990 Final Rule</i>
		Certified by the American Board of Medical Microbiology, the American Board of Clinical Chemistry, the American Board of Bioanalysis, OR other accrediting board in one laboratory specialty	493.1415 (b)(2)(ii) <i>from the 3/14/1990 Final Rule</i>
		Certified by the American Society of Cytology <b>OR</b> equivalent	493.1415 (b)(2)(iii) <i>from the 3/14/1990 Final Rule</i>
	Subsequent to graduation, has had 4 or more years of full-time general laboratory training and experience with 2 years spent acquiring proficiency in one of the lab specialties	N/A	493.1415 (b)(2)(iv) <i>from the 3/14/1990 Final Rule</i>
<b>DDS (Licensed)</b>	N/A	Be certified by the American Board of Oral Pathology, American Board of Pathology, or the American Osteopathic Board of Pathology <b>OR</b> board eligible	493.1415 (b)(3) <i>from the 3/14/1990 Final Rule</i>
<b>PhD:</b> chemical, physical, biological science	N/A	Certified by: American Board of Medical Microbiology, the American Board of Clinical Chemistry, the American Board of Bioanalysis, <b>OR</b> other accrediting board acceptable to HHS in one of the laboratory specialties	493.1415 (b)(4)(i) <i>from the 3/14/1990 Final Rule</i>
	Subsequent to graduation, has had 4 or more years of full-time general laboratory training and experience with 2 years spent acquiring proficiency in one of the lab specialties	N/A	493.1415 (b)(4)(ii) <i>from the 3/14/1990 Final Rule</i>
EDUCATION	TRAINING/EXPERIENCE	REGULATION	
With respect to individuals first qualifying before July 1, 1971, have been responsible for the direction of a laboratory for 12 months between 07/01/61 and 01/01/68 <b>AND</b>	Licensed <b>MD</b>	Subsequent to graduation had 4 years of pertinent full time laboratory experience	493.1415 (b)(5)(i) <i>from the 3/14/1990 Final Rule</i>
	<b>MASTER'S:</b> chemical, physical, or biological sciences	Subsequent to graduation had 4 years of pertinent full time laboratory experience	493.1415 (b)(5)(ii) <i>from the 3/14/1990 Final Rule</i>
	<b>BACHELOR'S:</b> chemical, physical, or biological science	Subsequent to graduation had 6 years of pertinent full time laboratory experience	493.1415 (b)(5)(iii) <i>from the 3/14/1990 Final Rule</i>
	<b>Achieved satisfactory grade on PHS examination</b> on or before 07/01/70	N/A	493.1415 (b)(5)(iv) <i>from the 3/14/1990 Final Rule</i>
	Qualify under State law to direct a laboratory located in that State	N/A	493.1415 (b)(6) <i>from the 3/14/1990 Final Rule</i>

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continued, LD QUALIFICATIONS IF SERVIING AS THE LD ON OR BEFORE FEBRUARY 28, 1992

493.1443(B)(4)

EDUCATON	TRAINING/EXPERIENCE	BOARD CERTIFIED/ELIGIBLE	REGULATION
On or before 02/28/92; be qualified under State law to direct a lab in the State in which the laboratory is located.	N/A	N/A	493.1443(b)(5)
<b>DDS (Licensed)</b>	N/A	Be certified by the American Board of Oral pathology, American board of Pathology, or the American osteopathic board of Pathology OR board eligible	493.1443(b)(6)

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EDUCATION	TRAINING/EXPERIENCE	BOARD CERTIFIED/ELIGIBLE	REGULATION
<b>TECHNICAL SUPERVISOR</b>			
QUALIFIES AS TECHNICAL SUPERVISOR FOR ALL SPECIALTIES/SUBSPECIALTIES EXCEPT HISTOCOMPATIBILITY AND CYTOGENETICS			
State Licensed Technical Supervisor (N/A in TX) AND State Licensed Physician <b>MD, DO</b>	N/A	<b>Certified in Anatomic and Clinical Pathology</b> by the American Board of Pathology or the American Osteopathic Board of Pathology <b>OR</b> board eligible	493.1449 (b)(2)
<b>WHEN 1449 (B)(2) NOT MET: FOR INDIVIDUAL SPECIALTIES/SUBSPECIALTIES BACTERIOLOGY (c), MYCOBACTERIOLOGY (d), MYCOLOGY (e), PARASITOLOGY (f), VIROLOGY (g), IMMUNOLOGY (h), CHEMISTRY (i), HEMATOLOGY (j)</b>			
State Licensed Physician <b>MD, DO, DPM</b>	N/A	<b>Certified in Clinical Pathology</b> by the American Board of Pathology or the American Osteopathic Board of Pathology <b>OR</b> board eligible	493.1449 (c)(1)(ii) Bacteriology 493.1449 (d)(1)(ii) Mycobacteriology 493.1449 (e)(1)(ii) Mycology 493.1449 (f)(1)(ii) Parasitology 493.1449 (g)(1)(ii) Virology 493.1449 (h)(1)(ii) Immunology 493.1449 (i)(1)(ii) Chemistry 493.1449 (j)(1)(ii) Hematology
	1 year laboratory training or experience in high complexity testing within the appropriate specialty: Microbiology Immunology Chemistry Hematology A minimum of 6 months experience in high complexity within the subspecialty: Bacteriology Mycobacteriology Mycology Parasitology Virology	N/A	493.1449 (c)(2)(ii) Bacteriology 493.1449 (d)(2)(ii) Mycobacteriology 493.1449 (e)(2)(ii) Mycology 493.1449 (f)(2)(ii) Parasitology 493.1449 (g)(2)(ii) Virology 493.1449 (h)(2)(ii) Immunology 493.1449 (i)(2)(ii) Chemistry 493.1449 (j)(2) (ii) Hematology
<b>PhD:</b> chemical, physical, biological, clinical laboratory science	1 year laboratory training or experience in high complexity testing within the appropriate specialty: Microbiology Immunology Chemistry Hematology A minimum of 6 months experience in high complexity within the subspecialty: Bacteriology Mycobacteriology Mycology Parasitology Virology	N/A	493.1449 (c)(3)(ii) Bacteriology 493.1449 (d)(3)(ii) Mycobacteriology 493.1449 (e)(3)(ii) Mycology 493.1449 (f)(3)(ii) Parasitology 493.1449 (g)(3)(ii) Virology 493.1449 (h)(3)(ii) Immunology 493.1449 (i)(3)(ii) Chemistry 493.1449 (j)(3)(ii) Hematology
<b>MASTER'S:</b> chemical, physical, biological, clinical laboratory science, or medical technology	2 years laboratory training or experience in high complexity testing within the appropriate specialty: Microbiology Immunology Chemistry Hematology A minimum of 6 months experience in high complexity within the subspecialty: Bacteriology Mycobacteriology Mycology Parasitology Virology	N/A	493.1449 (c)(4)(ii) Bacteriology 493.1449 (d)(4)(ii) Mycobacteriology 493.1449 (e)(4)(ii) Mycology 493.1449 (f)(4)(ii) Parasitology 493.1449 (g)(4)(ii) Virology 493.1449 (h)(4)(ii) Immunology 493.1449 (i)(4)(ii) Chemistry 493.1449 (j)(4)(ii) Hematology



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EDUCATION	TRAINING/EXPERIENCE	BOARD CERTIFIED/ELIGIBLE	REGULATION
<b>TECHNICAL SUPERVISOR, cont.</b>			
<b>BACHELOR'S:</b> chemical, physical, biological, clinical laboratory science, or medical technology	4 years laboratory training or experience in high complexity testing within the appropriate specialty: Microbiology      Immunology Chemistry          Hematology A minimum of 6 months experience in high complexity within the subspecialty: Bacteriology      Mycobacteriology Mycology            Parasitology Virology	N/A	493.1449 (c)(5)(ii) Bacteriology 493.1449 (d)(5)(ii) Mycobacteriology 493.1449 (e)(5)(ii) Mycology 493.1449 (f)(5)(ii) Parasitology 493.1449 (g)(5)(ii) Virology 493.1449 (h)(5)(ii) Immunology 493.1449 (i)(5)(ii) Chemistry 493.1449 (j)(5)(ii) Hematology
<b>CYTOLOGY (k)</b>			
State Licensed Physician <b>MD, DO</b>	N/A	<b>Certified in Anatomic Pathology</b> by the American Board of Pathology or the American Osteopathic Board of Pathology <b>OR</b> board eligible	493.1449 (k)(1)(ii)(A)
		<b>Certified in Cytopathology</b> by the American Society of Cytology <b>OR</b> board eligible	493.1449 (k)(1)(ii)(B)
		Individual qualified under 493.1449 (b) or 493.1449 (k)(1) may delegate some TS cytology responsibilities to an individual in final year of full-time training leading to certification in 493.1449 (b)(2) or (k)(1)(ii)(A).	493.1449 (k)(2)
<b>HISTOPATHOLOGY (l)</b>			
State Licensed Physician <b>MD, DO</b>	N/A	<b>Certified in Anatomic Pathology</b> by the American Board of Pathology or the American Osteopathic Board of Pathology <b>OR</b> board eligible	493.1449 (l)(1)(B)
		Individual qualified under 493.1449 (b) or 493.1449 (l)(1) may delegate the responsibility of examination and interpretation of histopathology specimens to a resident in training leading to certification specified in 493.1449 (b) or (l)(1)(i)(B).	493.1449 (l)(1)(B)(ii)
<b>DERMATOPATHOLOGY (l)(2)</b>			
State Licensed Physician <b>MD, DO</b>	N/A	<b>Certified in Anatomic Pathology</b> by the American Board of Pathology <b>or</b> the American Osteopathic Board of Pathology <b>OR</b> board eligible	493.1449 (l)(2)(i)(B)(1)
		<b>Certified in Dermatopathology</b> by the American Board of Dermatology <b>and</b> The American Board of Pathology <b>OR</b> board eligible	493.1449 (l)(2)(i)(B)(2)
		<b>Certified in Dermatology</b> by the American Board of Dermatology <b>OR</b> board eligible	493.1449 (l)(2)(i)(B)(3)
		Individual qualified under 493.1449 (b) or 493.1449 (l)(2)(i) may delegate the responsibility of examination and interpretation of dermatopathology to an individual who is a resident In training leading to certification in 493.1449 (b) or (l)(2)(i)(B).	493.1449 (l)(2)(ii)

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EDUCATION	TRAINING/EXPERIENCE	BOARD CERTIFIED/ELIGIBLE	REGULATION
<b>TECHNICAL SUPERVISOR, cont.</b>			
<b>OPHTHALMIC PATHOLOGY (l)(3)</b>			
State Licensed Physician <b>MD, DO</b>	N/A	<b>Certified in Anatomic Pathology</b> by the American Board of Pathology <b>or</b> the American Osteopathic Board of Pathology <b>OR</b> board eligible	493.1449 (l)(3)(i)(B)(1)
	Completed 1 year of formal post-residency fellowship training in ophthalmic pathology	Certified by the American Board of Ophthalmology <b>and</b> The American Board of Pathology <b>OR</b> board eligible	493.1449 (l)(3)(i)(B)(2)
	N/A	Individual qualified under 493.1449 (b) or 493.1449 (l)(3)(i) may delegate the responsibility of examination and interpretation of ophthalmic specimens to an individual who is a resident In training leading to certification in 493.1449 (b) or (l)(3)(i)(B).	493.1449 (l)(3)(i)(B)(2)(ii)
<b>ORAL PATHOLOGY (m)</b>			
State Licensed Physician <b>MD, DO</b>	N/A	<b>Certified in Anatomic Pathology</b> by the American Board of Pathology <b>or</b> the American Osteopathic Board of Pathology <b>OR</b> board eligible	493.1449 (m)(1)(ii)
		<b>Certified in Oral Pathology</b> by the American Board of Oral Pathology <b>OR</b> board eligible	493.1449 (m)(2)
		Individual qualified under 493.1449 (b) or 493.1449 (m)(1) or (2) may delegate the responsibility of examination and interpretation of oral pathology to an individual who is a resident In training leading to certification in 493.1449 (b) or (m)(1) or (2).	493.1449 (m)(3)
<b>RADIOBIOASSAY (n)</b>			
State Licensed Physician <b>MD, DO, DPM</b>	N/A	<b>Certified in Clinical Pathology</b> by the American Board of Pathology <b>or</b> the American Osteopathic Board of Pathology <b>or</b> board eligible	493.1449 (n)(1)(ii)
	1 year laboratory training or experience in high complexity testing for the specialty of radiobioassay	N/A	493.1449 (n)(2)(ii)
<b>PhD:</b> chemical, physical, biological, clinical laboratory science	1 year laboratory training or experience in high complexity testing for the specialty of radiobioassay	N/A	493.1449 (n)(3)(ii)
<b>MASTER'S:</b> chemical, physical, biological, clinical laboratory science, or medical technology	2 years laboratory training or experience in high complexity testing for the specialty of radiobioassay	N/A	493.1449 (n)(4)(ii)
<b>BACHELOR'S:</b> chemical, physical, biological, clinical laboratory science, or medical technology	4 years laboratory training or experience in high complexity testing for the specialty of radiobioassay	N/A	493.1449 (n)(5)(ii)

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EDUCATION	TRAINING/EXPERIENCE	BOARD CERTIFIED/ELIGIBLE	REGULATION
<b>TECHNICAL SUPERVISOR, cont.</b>			
<b>HISTOCOMPATIBILITY (o)</b>			
State Licensed Physician <b>MD, DO, DPM</b>	4 years laboratory training or experience in high complexity testing for the specialty of <u>Histocompatibility</u>	N/A	493.1449 (o)(1)(ii)(A)
	2 years laboratory training or experience in high complexity testing for the specialty of <u>General Immunology</u>  <b>AND</b> 2 years laboratory training or experience in high complexity testing for the specialty of <u>Histocompatibility</u>	N/A	493.1449 (o)(2)
<b>PhD:</b> biological, or clinical laboratory science	4 years laboratory training or experience in high complexity testing for the specialty of <u>Histocompatibility</u>	N/A	493.1449 (o)(2)(ii)(A)
	2 years laboratory training or experience in high complexity testing for the specialty of <u>General Immunology</u>  <b>AND</b> 2 years laboratory training or experience in high complexity testing for the specialty of <u>Histocompatibility</u>	N/A	493.1449 (o)(2)(ii)(B)(2)
<b>CLINICAL CYTOGENETICS (p)</b>			
State Licensed Physician <b>MD, DO, DPM</b>	4 years laboratory training or experience in <u>Genetics</u> , 2 years of which have been in <u>Clinical Cytogenetics</u>	N/A	493.1449 (p)(1)(ii)
<b>PhD:</b> biological science, including biochemistry, or clinical laboratory science	4 years laboratory training or experience in <u>Genetics</u> , 2 years of which have been in <u>Clinical Cytogenetics</u>	N/A	493.1449 (p)(2)(ii)
<b>IMMUNOHEMATOLOGY (q)</b>			
State Licensed Physician <b>MD, DO, DPM</b>	N/A	<b>Certified in Clinical Pathology</b> by the American Board of Pathology <b>or</b> the American Osteopathic Board of Pathology <b>or</b> board eligible	493.1449 (q)(1)(ii)
	1 year laboratory training or experience in high complexity testing for the specialty of immunohematology	N/A	493.1449 (q)(2)(ii)
<b>CLINICAL CONSULTANT</b>			
State Licensed Physician <b>MD, DO, DPM</b>	N/A	<b>Qualified as Lab Director under 493.1443 (b)(1)</b>	493.1455 (a)
	<b>Qualified as Lab Director under 493.1443 (b)(2)</b>	N/A	
<b>DDS (Licensed)</b>	N/A	<b>Qualified as Lab Director under 493.1443 (b)(6)</b>	
<b>PhD:</b> chemical, physical, biological, or clinical laboratory science	N/A	<b>Qualified as Lab Director under 493.1443 (b)(3)</b>	
State Licensed Physician <b>MD, DO, DPM</b>	N/A	N/A	493.1455 (b)

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EDUCATION	TRAINING/EXPERIENCE	BOARD CERTIFIED/ELIGIBLE	REGULATION
<b>GENERAL SUPERVISOR</b>			
State Licensed General Supervisor (N/A in TX) <b>AND</b> Qualifies as <b>LABORATORY DIRECTOR</b> under 493.1443	N/A	N/A	493.1461 (b)(1)
State Licensed General Supervisor (N/A) in TX <b>AND</b> Qualifies as <b>TECHNICAL SUPERVISOR</b> under 493.1449	N/A	N/A	493.1461 (b)(2)
State Licensed Physician <b>MD, DO, DPM</b> or <b>PhD, MASTER'S, BACHELOR'S:</b> chemical, physical, biological, clinical laboratory science, or medical technology	1 year laboratory training or experience in high complexity testing	N/A	493.1461 (c)(1)(ii)
Qualifies as <b>TESTING PERSONNEL</b> under 493.1489 (b)(2)	2 years laboratory training or experience in high complexity testing	N/A	493.1461 (c)(2)(ii)
Previously qualified as a <b>GENERAL SUPERVISOR</b> under 493.1462 on or before 02/28/92 except as specified under 493.1461 (c)(3)(ii).	N/A	N/A	493.1461 (c)(3)(i)
<b>EXCEPTION: An individual achieving a satisfactory grade on HHS exam for technologists between 03/01/86 and 12/31/87 qualifies as GENERAL SUPERVISOR</b> if requirements of 493.1462 are met on or before 01/01/94. Refer to 493.1462 GS category.	N/A	N/A	493.1461 (c)(3)(ii)
HIGH SCHOOL DIPLOMA or equivalent	<b>On or before 09/01/92</b> , served as a general supervisor of high complexity testing <b>AND</b> <b>on or before 04/24/95</b> graduated from a medical lab or clinical lab training program approved or accredited by Accrediting Bureau of Health Education Schools (ABHES), or Commission on Allied Health Education Accreditation (CAHEA), or other organization approved by HHS	N/A	493.1461 (c)(4)(i)(A)
	<b>On or before 09/01/92</b> , served as a general supervisor of high complexity testing <b>AND</b> <b>on or before 04/24/95</b> is a high school graduate or equivalent and have successfully completed an official U.S. military medical laboratory procedures course of at least 50 weeks duration and have held the military enlisted occupational specialty of Medical Specialist (Laboratory Technician)	N/A	493.1461 (c)(4)(i)(B)

09302009 SUMMARY PERSONNEL QUALIFICATIONS – HIGH COMPLEXITY

EDUCATION	TRAINING/EXPERIENCE	BOARD CERTIFIED/ELIGIBLE	REGULATION
<b>GENERAL SUPERVISOR, cont.</b>			
HIGH SCHOOL DIPLOMA or equivalent	On or before <b>09/01/92</b> , served as a general supervisor of high complexity testing  <b>AND</b> on or before <b>04/24/95</b> have at least 2 years of clinical laboratory training or experience, or both, in high complexity testing, including at least 6 years of supervisory experience in high complexity testing.	N/A	493.1461 (c)(4)(ii)
	On or before <b>09/01/92</b> , served as a general supervisor of high complexity testing Have at least 10 years of laboratory training or experience, or both, in high complexity testing, including at least 6 years of supervisory experience between 09/01/82 and 09/01/92.	N/A	493.1461 (c)(5)(ii)
<b>FOR BLOOD GAS ANALYSIS ONLY</b>			
Qualifies as a GENERAL SUPERVISOR under regulations: 493.1461 (b)(1) 493.1461 (b)(2) 493.1461 (c)	N/A	N/A	493.1461 (d)(1)
BACHELOR'S: Respiratory Therapy or Cardiovascular Technology	1 year lab training, experience, or both in blood gas analysis	N/A	493.1461 (d)(2)(ii)
ASSOCIATE degree related to Pulmonary Function	2 years lab training, experience, or both in blood gas analysis	N/A	493.1461 (d)(3)(ii)
<b>FOR HISTOPATHOLOGY, ORAL PATHOLOGY, DERMATOPATHOLOGY, OPHTHALMIC PATHOLOGY</b>			
<u>Histopathology:</u> <b>Qualifies as Technical Supervisor</b> under 493.1449 (b) or (l)(1)	N/A	N/A	493.1461 (e)(1)
<u>Dermatopathology:</u> <b>Qualifies as Technical Supervisor</b> under 493.1449 (b)or (l) or (2)	N/A	N/A	493.1461 (e)(2)
<u>Ophthalmic Pathology:</u> <b>Qualifies as Technical Supervisor</b> under 493.1449 (b)or (1)(3)	N/A	N/A	493.1461 (e)(3)
<u>Oral Pathology:</u> <b>Qualifies as Technical Supervisor</b> under 493.1449 (b)or (m)	N/A	N/A	493.1461 (e)(4)

09302009 SUMMARY PERSONNEL QUALIFICATIONS – HIGH COMPLEXITY

**493.1462 GENERAL SUPERVISOR QUALIFICATIONS ON OR BEFORE FEBRUARY 28, 1992**

EDUCATION	TRAINING/EXPERIENCE	BOARD CERTIFIED/ELIGIBLE	REGULATION
<b>GENERAL SUPERVISOR, cont.</b>			
Qualifies as LABORATORY DIRECTOR under 493.1406 (b)(1), (2), (4), or (5)  (Depending on size and functions of lab, LD may also serve as Lab Supervisor)	N/A	N/A	493.1462 (b)(1)
State Licensed Physician <b>MD, DO, DPM</b> or <b>PhD:</b> chemical, physical, or biological science	Subsequent to graduation, has had 2 years experience in one of the laboratory specialties	N/A	493.1462 (b)(2)(ii)
<b>MASTER'S:</b> chemical, physical, or biological science	Subsequent to graduation, has had 4 years full-time lab experience, not less than 2 years in the designated laboratory specialty	N/A	493.1462 (b)(3)(ii)
<b>Qualifies as LABORATORY TECHNOLOGIST under 493.1491</b>	6 years full-time lab experience, not less than 2 years in the designated laboratory specialty	N/A	493.1462 (b)(4)(ii)
<b>Individual qualified before July 1, 1971</b>	15 years full time lab experience before 01/01/68 (Experience may be met by substitution of education)	N/A	493.1462 (b)(5)

**CYTOLOGY GENERAL SUPERVISOR**

State Licensed General Supervisor in Cytology (N/A in TX) AND <b>Qualifies as TECHNICAL SUPERVISOR under 493.1449 (b) or (k)</b>	N/A	N/A	493.1469 (a)
<b>Qualifies as a CYTOTECHNOLOGIST under 493.1483</b>	3 years full time experience (2080 hours per year) as a cytotechnologist within the preceding 10 years	N/A	493.1469 (b)(2)

09302009 SUMMARY PERSONNEL QUALIFICATIONS – HIGH COMPLEXITY

EDUCATION	TRAINING/EXPERIENCE	BOARD CERTIFIED/ELIGIBLE	REGULATION
<b>TESTING PERSONNEL</b>			
State Licensed Physician MD, DO	N/A	<b>Certified in both Anatomic and Clinical Pathology</b> under 493.1449 (b) Or Certified in Anatomic Pathology under 493.149 (k)	493.1483
<b>Graduate of an accredited school of Cytotechnology (accredited by CAHEA or other HHS approved organization)</b>	N/A	N/A	493.1483 (b)(1)
<b>Certified in Cytotechnology by HHS approved agency</b>	N/A	N/A	493.1483 (b)(2)
<b>BEFORE SEPTEMBER 1, 1992</b>			
<b>Completed 2 years in an accredited institution with a minimum of 12 hours in science including 8 hours in biology</b>	12 months of training in a school of cytotechnology accredited by HHS approved agency	N/A	493.1483 (b)(3)(i)(A)
	6 months of training in a school of cytotechnology accredited by HHS approved agency and 6 months of full time experience in Cytology in a lab acceptable to the pathologist who directed the formal 6 months of training	N/A	493.1483 (b)(3)(i)(B)
<b>Achieved satisfactory grade on proficiency exam for Cytotechnologists approved by HHS</b>	N/A	N/A	493.1483 (b)(3)(ii)
On or before 01/01/69: HIGH SCHOOL DIPLOMA or equivalent	<b>Before 09/01/94:</b> 2 years full time experience within preceding 5 years examining cytology slides with supervision by individual qualified under 493.1449 (b) or (k)(1) <b>AND</b> <b>Before 01/01/69</b> must have: Completed 6 months training in cytotechnology in a laboratory directed by pathologist or other physician providing cytology services; <b>AND</b> Completed 2 years of full time supervised experience in cytotechnology	N/A	493.1483 (b)(4)(iii)
	<b>Before 09/01/94:</b> 2 years full time experience examining cytology slides within preceding 5 years in U.S. with supervision by individual qualified under 493.1449 (b) or (k)(1) <b>AND</b> <b>Before 09/01/95:</b> Meets requirements of 493.1483 (b)(1) [Graduate of CAHEA or other accredited school of cytotechnology approved by HHS] <b>OR</b> 493.1483 (b)(2) [Certified by agency approved by HHS]	N/A	493.1483 (b)(5)(ii)

09302009 SUMMARY PERSONNEL QUALIFICATIONS – HIGH COMPLEXITY

EDUCATION	TRAINING/EXPERIENCE	BOARD CERTIFIED/ELIGIBLE	REGULATION
<b>TESTING PERSONNEL, cont.</b>			
State Licensed Physician <b>MD, DO, DPM</b> or <b>PhD, MASTER'S, BACHELOR'S:</b> chemical, physical, biological, clinical laboratory science, or medical technology	N/A	N/A	493.1489 (b)(1)
<b>ASSOCIATE degree:</b> laboratory science, or medical laboratory technology	N/A	N/A	493.1489 (b)(2)(i)
<b>Education and training equivalent to 496.1489 (b)(2)(i) that includes:</b>  <b>BACHELOR'S or ASSOCIATE'S degree NOT in lab science of MLT that includes 24 semester hours of medical laboratory technology courses</b>  <b>OR</b> <b>Successful completion of 60 semester hours or equivalent that include 24 semester hours of science courses that includes:</b> <b>6 hours of chemistry</b> <b>6 hours of biology</b>  <b>AND</b> <b>12 hours of chemistry, biology, or medical laboratory technology</b>	<b>Completion of a clinical laboratory training program</b> approved or accredited by the ABHES, the CAHEA, or other organization approved by HHS. This training may be included in the 60 semester hours listed in 493.1489 (b)(2)(ii)(A).	N/A	493.1489 (b)(2)(ii)(B)(1)
	<b>3 months documented laboratory training in each</b> specialty in which the individual performs high complexity testing	N/A	493.1489 (b)(2)(ii)(B)(2)
Previously qualified or could have qualified as a Technologist under 493.1491 on or before 02-28-92. Refer to the 493.1491 Technologist category.	N/A	N/A	493.1489 (b)(3)
<b>ON OR BEFORE APRIL 24, 1995</b>			
<b>HIGH SCHOOL DIPLOMA, or equivalent</b>	<b>Completion of a medical laboratory or clinical lab training program</b> approved or accredited by ABHES, CAHEA,  <b>OR</b> other organization approved by HHS.	N/A	493.1489 (b)(4)(i)
	Successfully completed a 50 week U.S. military medial laboratory procedures course and held a position of Medical Laboratory Specialist (Laboratory Technician).	N/A	493.1489 (b)(4)(ii)



09302009 SUMMARY PERSONNEL QUALIFICATIONS – HIGH COMPLEXITY

EDUCATION	TRAINING/EXPERIENCE	BOARD CERTIFIED/ELIGIBLE	REGULATION
<b>TESTING PERSONNEL, cont.</b>			
UNTIL SEPTEMBER 1, 1997			
<b>HIGH SCHOOL DIPLOMA, or equivalent</b>	Documentation of appropriate training prior to testing with documentation of training to ensure the skills required for/to: Proper specimen collection and processing Implementing all standard laboratory procedures Performing each test method and proper instrument use Performing preventive maintenance, troubleshooting, and calibrations Reagent stability and storage Implement the quality control policies and procedures, Awareness of factors affecting test results Assess and verify the validity of patient test results through evaluation of quality control values before reporting	N/A	493.1489 (b)(5)(i)(B)(8)
AS OF SEPTEMBER 1, 1997			
<b>Qualifies as TESTING PERSONNEL under 493.1489 (b)(1), (b)(2), or (b)(4),</b> except for those qualified under (b)(5)(i) who were performing high complexity testing on or before April 24, 1995	N/A	N/A	493.1489 (b)(5)(ii)
<b>FOR ARTERIAL BLOOD GAS ANALYSIS</b>			
<b>Qualifies as TESTING PERSONNEL under 493.1489 (b)(1), (b)(2), (b)(3), (b)(4), or (b)(5)</b>	N/A	N/A	493.1489 (b)(6)(i)
<b>BACHELOR'S:</b> Respiratory Therapy or Cardiovascular Technology	N/A	N/A	493.1489 (b)(6)(ii)
<b>ASSOCIATE'S</b> degree related to pulmonary function	N/A	N/A	493.1489 (b)(6)(iii)
<b>FOR HISTOPATHOLOGY</b>			
Qualifies as TECHNICAL SUPERVISOR under 493.1449 (b) or (l) to perform tissue examinations	N/A	N/A	493.1489 (b)(7)

09302009 SUMMARY PERSONNEL QUALIFICATIONS – HIGH COMPLEXITY

493.1491 TECHNOLOGIST QUALIFICATIONS ON OR BEFORE FEBRUARY 28, 1992

EDUCATION	TRAINING/EXPERIENCE	BOARD CERTIFIED/ELIGIBLE	REGULATION
<b>TESTING PERSONNEL, cont.</b>			
<b>BACHELOR'S</b> degree in Medical Technology from accredited university	N/A	N/A	493.1491 (b)(1)
Successfully completed <b>3 years academic study</b> (minimum of 90 semester hours or equivalent)	Successful completion of a course of training of at least 12 months in a school of medical technology accredited by agency approved by HHS.	N/A	493.1491 (b)(2)
<b>BACHELOR'S:</b> chemical, physical, biological sciences	1 year full-time laboratory training or experience in the specialty/subspecialty for which individual performs tests	N/A	493.1491 (b)(3)
Successfully completed <b>3 years (90 semester hours or equivalent)</b> with the following distribution of courses:  <i>For those whose training was completed before 9/15/63:</i> <b>24 semester hours in Chemistry and Biology:</b> <b>Inorganic chemistry</b> 6 semester hours <b>Chemistry, other</b> 3 semester hours <b>Biology (medical sciences)</b> 12 semester hours <b>Biology or chemistry</b> 3 semester hours	1 year experience, training, or both covering several fields of medical lab work of such quality that provides education and training in medical technology equivalent to that described in 493.1491 (b)(1) and (2).	N/A	493.1491 (b)(4)(i)(A)(2)
Successfully completed 3 years (90 semester hours or equivalent) with the following distribution of courses:  <i>For those whose training was completed after 9-14-63:</i> <b>Chemistry, other</b> 16 semester hours Inorganic 6 semester hours Other 10 semester hours hours <b>Biology (medical sciences)</b> 16 semester hours <b>Mathematics</b> 3 semester hours		N/A	493.1491 (b)(4)(ii)
Individuals <b>first qualified before 07-01-71</b> and performed duties of a technologist at any time between 07/01/61 and 01/01/68	10 yrs of pertinent lab experience prior to 01-01-68 (Required experience may be met by substitution of education for experience)	N/A	493.1491 (b)(5)(ii)
<b>Achieved a satisfactory grade on a proficiency examination</b> approved by HHS	N/A	N/A	493.1491 (b)(6)