

West Virginia Career and Technical Education Endorsement and Testing Manual

A listing of all WVBE-required licensure exams and industry credentials required for educator certification and for completion of West Virginia Board of Education-approved Career and Technical Education programs leading to West Virginia licensure. This Manual is maintained on the WVDE website. When tests, scores, or industry credentials listed in the manual are changed, the validity period for the previously listed test, score, and/or industry credential shall be one year from the effective date of the new test, score, or industry credential. Exception: tests, scores, or industry credentials shall remain valid for twelve months after completion of an approved program for licensure where the applicant was continuously enrolled even if the test, score, or industry credential has changed.

REQUIRED TESTS, INDUSTRY CREDENTIALS AND WORK EXPERIENCE REQUIRED FOR ISSUANCE OF THE CAREER/TECHNICAL PERMIT AND CAREER/TECHNICAL CERTIFICATE^{1,2,3,4,5}

TABLE 1: REQUIRED BASIC SKILLS TESTS

California Achievement Tests Required for Career/Technical Educators Required Score		
	Career/Technical Permit	Career Technical Certificate
Reading	771	777
Writing	757	765
Mathematics	775	783
Content Specializations ³		

TABLE 2: WAGE EARNING EXPERIENCE REQUIRED FOR CLUSTER AREA ENDORSEMENTS

AGRICULTURE, FOOD AND NATURAL RESOURCES
Wage earning experience required for the career and technical education alternatively certified teacher in Agriculture, Food and Natural Resources
<p>Wage-Earning Experience – Complete four years (8,000 clock hours) of satisfactory and reasonably continuous work experience in the occupation for which licensure is requested; OR</p> <p>Bachelor’s Degree. – Hold a bachelor’s degree AND complete two years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested; OR</p> <p>Associate Degree. – Hold an Associate Degree in an area related to the specialization AND complete two (2) years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested.</p> <p>Completion of a full year of training from an approved education program in the specialization may count toward a half year of the work experience requirements. Relevant teaching experience may count as equal to work experience requirements.</p>

WVBE ENDORSEMENTS AND ENDORSEMENT CODES AWARDED FOR CTE CONCENTRATIONS	REQUIRED INDUSTRY CREDENTIALS FOR CTE CERTIFICATION	INDUSTRY CREDENITALING ORGANIZATION/S
7215 ARCGIS		
7410 Forestry		
7430 Oil/Gas Extraction and Distribution		
7720 Agriculture Industry		Complete Professional Development and/or WVDE approved course work related to Career and Technical Education.
7726 Mining Extraction	Miner's Health Safety and Training	40-Hour Surface Mining Card 80 Hour Underground Card
7962 Pet Grooming		
7963 Taxidermy		
7964 Environmental Technology and Management		

ARCHITECTURE AND CONSTRUCTION CLUSTER

<p>Wage earning experience required for the career and technical education alternatively certified teacher in Architecture and Construction Cluster</p>		
<p>Wage-Earning Experience – Complete four years (8,000 clock hours) of satisfactory and reasonably continuous work experience in the occupation for which licensure is requested; OR Bachelor’s Degree. – Hold a bachelor’s degree AND complete two years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested; OR Associate Degree. – Hold an Associate Degree in an area related to the specialization AND complete two (2) years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested.</p> <p>Completion of a full year of training from an approved education program in the specialization may count toward a half year of the work experience requirements. Relevant teaching experience may count as equal to work experience requirements.</p>		
WVBE ENDORSEMENTS AND ENDORSEMENT CODES AWARDED FOR CTE CONCENTRATIONS	REQUIRED INDUSTRY CREDENTIALS FOR CTE CERTIFICATION	INDUSTRY CREDENITLING ORGANIZATION/S
7083 Air Conditioning and Refrigeration	ICE Industry Competency Exam Entry Level Residential Heating & Cooling Technician	Industry Competency Exams (ICE) Certified Testing Center
	EPA Section 608 Technician Certification, Universal Certification	US Environmental Protection Agency (EPA) EPA Testing Center
7105 Civil Technology	Certified Drafters – Architectural or Certified Drafters – Mechanical or Certified Drafters - Civil	American Design and Drafting Association (ADDA)
7030 Electrical Technology	Master Electrician License	WV State Fire Marshal
7021 Carpentry		
7027 Building Maintenance & Operations		
7028 General Building Construction (House Construction)		
7022 Masonry		
7073 Operation/Maintenance-Heavy Equipment		
7023 Plumber and Pipefitting	WV Master Plumber's License	West Virginia Division of Labor

ARTS, A/V TECHNOLOGY AND COMMUNICATIONS

<p>Wage earning experience required for the career and technical education alternatively certified teacher in Arts, A/V Technology and Communications Cluster</p>
<p>Wage-Earning Experience – Complete four years (8,000 clock hours) of satisfactory and reasonably continuous work experience in the occupation for which licensure is requested; OR Bachelor’s Degree. – Hold a bachelor’s degree AND complete two years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested; OR Associate Degree. – Hold an Associate Degree in an area related to the specialization AND complete two (2) years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested. Completion of a full year of training from an approved education program in the specialization may count toward a half year of the work experience requirements. Relevant teaching experience may count as equal to work experience requirements.</p>

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7175 Broadcasting Technology		
7012 Commercial Art		
7026 Painting-Decorating		
7132 Communication Technology		
7014 Graphic Arts		
7015 Offset Printing		

BUSINESS MANAGEMENT AND ADMINISTRATION

<p>Wage earning experience required for the career and technical education alternatively certified teacher in Business Management and Administration Cluster</p>
<p>Wage-Earning Experience – Complete four years (8,000 clock hours) of satisfactory and reasonably continuous work experience in the occupation for which licensure is requested; OR Bachelor’s Degree. – Hold a bachelor’s degree AND complete two years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested; OR Associate Degree. – Hold an Associate Degree in an area related to the specialization AND complete two (2) years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested. Completion of a full year of training from an approved education program in the specialization may count toward a half year of the work experience requirements. Relevant teaching experience may count as equal to work experience requirements.</p>

WVBE ENDORSEMENTS AND ENDORSEMENT CODES AWARDED FOR CTE CONCENTRATIONS	REQUIRED INDUSTRY CREDENTIALS FOR CTE CERTIFICATION	INDUSTRY CREDENITLING ORGANIZATION/S
7721 Business Management & Administration Industry		

FINANCE

Wage earning experience required for the career and technical education alternatively certified teacher in Finance Cluster
Wage-Earning Experience – Complete four years (8,000 clock hours) of satisfactory and reasonably continuous work experience in the occupation for which licensure is requested; OR Bachelor’s Degree. – Hold a bachelor’s degree AND complete two years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested; OR Associate Degree. – Hold an Associate Degree in an area related to the specialization AND complete two (2) years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested. Completion of a full year of training from an approved education program in the specialization may count toward a half year of the work experience requirements. Relevant teaching experience may count as equal to work experience requirements.

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7722 Finance Industry		

HEALTH SCIENCE EDUCATION

Wage earning experience required for the career and technical education alternatively certified teacher in Health Science Education is specified in relevant sections below
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Wage-Earning Experience – Complete four years (8,000 clock hours) of satisfactory and reasonably continuous work experience in the occupation for which licensure is requested; OR Bachelor’s Degree. – Hold a bachelor’s degree AND complete two years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested; OR Associate Degree. – Hold an Associate Degree in an area related to the specialization AND complete two (2) years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested. Completion of a full year of training from an approved education program in the specialization may count toward a half year of the work experience requirements. Relevant teaching experience may count as equal to work experience requirements.		
7457 AC Health Informatics I		Complete Professional Development and/or WVDE approved course work related to Career and Technical Education.
7458 AC Health Informatics II		
7459 AC Health Informatics III		
7460 AC Health Informatics IV		
7048 Health Assistant	Valid West Virginia License as Registered Nurse (RN).	West Virginia Board of Examiners for Registered Professional Nurses

WVBE ENDORSEMENTS AND ENDORSEMENT CODES AWARDED FOR CTE CONCENTRATIONS	REQUIRED INDUSTRY CREDENTIALS FOR CTE CERTIFICATION	INDUSTRY CREDENTIALIZING ORGANIZATION/S
7042 Nursing Aide	Valid West Virginia License as Registered Nurse (RN) AND 1 year (2000 hours) long term care experience.	West Virginia Board of Examiners for Registered Professional Nurses
7403 Veterinary Technician	Educated from an American Veterinary Medical Association accredited Veterinary Technology program and currently a Licensed Veterinary Technician or Registered Veterinary Technician or Certified Veterinary technician or hold credential by passing the Veterinary Technician National Exam prior to change of 1/1/2010.	West Virginia Board of Examiners for Registered Professional Nurses
<p>Wage Earning Experience – Complete 3 years (6000 clock hours) employment as a registered professional nurse 3 years immediately preceding employment as a faculty member; have or be enrolled in a baccalaureate degree program; have at least 3 years of experience as a registered professional nurse which should include 2 years of patient side nursing care experience in an acute, intermediate or long term care clinical facility; 1 year experience in one or more of the following areas: teaching, supervision or administration; and present evidence of continuing education.</p>		
7041 Practical Nursing (LPN)	Valid unencumbered West Virginia License as Registered Nurse (RN)	West Virginia Board of Examiners for registered Professional Nurses
<p>Wage-Earning Experience – Complete two years (4,000 clock hours) of wage earning experience in a dental office with practice, i.e., scheduling, billing and chair side assisting. The most recent experience must have been within the past three years and beyond the training period. Has completed a dental assistant program or is a graduate with a degree in dental hygiene from an approved dental hygiene program of a college, school or dental department of a university. Holds a valid certification from the Dental Assistant National Board, or a Registered Dental Assistant from the American Medical Technician Organization or has passed the national board dental hygiene examination and the WV Dental Board examination.</p>		
7043 Dental Assistant	Certified Dental Assistant or a Licensed Dental Hygienist	Holds a valid certification from the Dental Assistant National Board, or a Registered Dental Assistant

WVBE ENDORSEMENTS AND ENDORSEMENT CODES AWARDED FOR CTE CONCENTRATIONS	REQUIRED INDUSTRY CREDENTIALS FOR CTE CERTIFICATION	INDUSTRY CREDENTIALIZING ORGANIZATION/S
		from the American Medical Technician Organization or has passed the national board dental hygiene examination and the WV Dental Board examination.
<p>Wage-Earning Experience – Complete two years (4,000 clock hours) of wage earning experience as a dental laboratory technician as qualified by education, training or experience who has completed a dental laboratory technology education program and who fabricates, repairs or alters a dental prosthesis in accordance with a dentist’s work authorization. The most recent experience must have been within the past three years and beyond the training period.</p>		
7171 Dental Lab Technician	Dental Lab Technician or Dentist	Hold a valid certificate from the National Board for Certification hereinafter NCB. A Doctor of Dental Surgery (DDS) or Doctor of Dental Medicine (DMD) and licensed in the state of WV to practice in the profession.
<p>Wage-Earning Experience – Complete two years (4,000 clock hours) of wage earning experience in a healthcare facility working with filtering data, medical records and/or health informatics. The most recent experience must have been within the past three years and beyond the training period. Completion of three years (6000 clock hours) of on the job training in health informatics (coding, electronic health record implementation, data mining) in this specialization may count toward a two years of the work experience requirements. Relevant teaching experience may count as equal to work experience requirements.</p>		
7724 Health Informatics	<p>Medical Assistant or Valid West Virginia Licenses as Registered Nurse (RN) Or healthcare experience and hold a certification by the American Health Informatics Association Or Certified Coding Associate, Certified Coding Specialist or a Registered Health Information Technician.</p>	<p>Hold a valid certificate from the American Association of Medical Assistants (AAMA), National Association for Health Professionals (NAHP), National Center for Competency Testing (NCCT), National Healthcareer Association (NHA), American Medical Technologists (AMT) or a valid license as a registered nurse in West Virginia with a minimum of a nursing diploma/associate degree and/or hold a certification by the American Health Informatics Association.</p>
<p>Wage-Earning Experience – Complete two years (4,000 clock hours) of wage earning experience in a medical office or out-patient clinic with experience in all aspects of medical office practice, i.e. insurance, medical transcription, and clinical procedures such as treatments and examinations. The most recent experience must have been within the past three years and beyond the training period.</p>		

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7045 Medical Assistant	Medical Assistant or Valid West Virginia License as Registered Nurse (RN)	Hold a valid certificate from the American Association of Medical Assistants (AAMA), National Association for Health Professionals (NAHP), National Center for Competency Testing (NCCT), National Healthcareer Association (NHA), American Medical Technologists (AMT) or a valid license as a registered nurse in West Virginia with a minimum of an associate degree.
Wage-Earning Experience – Complete two years (4,000 clock hours) of Paramedic experience, which may include emergency room or emergency medical care with a licensed EMS agency.		
7050 Medical Emergency Preparedness	Medical Emergency Preparedness	Hold a current West Virginia Paramedic Certification including a current Cardiopulmonary Resuscitation (CPR) Instructor Certification, current First Aid Instructor Certification and Current Emergency Medical Technician (EMT) Instructor Certification.
Wage-Earning Experience – Complete two years (4,000 clock hours) of wage earning experience as a certified/registered pharmacy technician which means as a registered supportive personnel who work under the direct supervision of a pharmacist or as a registered nurse. The most recent experience must have been within the past three years and beyond the training period.		
7608 Pharmacy Technician	Valid Certified Pharmacy Technician (CPhT) or a Registered Pharmacy Technician (RPT)) or a Registered Nurse	West Virginia Board of Pharmacy for Pharmacy Technician. West Virginia Board of Examiners for Registered Professional Nurses
Wage-Earning Experience – Complete two years (4,000 clock hours) of wage earning experience as a certified phlebotomy technician, as a registered supportive personnel who works under the direct supervision of a medical lab assistant or director or complete two years (4000) hours of wage earning experience in a clinical laboratory in a hospital, physician’s office or clinic in the performance of collection of routine laboratory samples.		
7603 Phlebotomist	Valid Certified Phlebotomy certification or a Medical Laboratory Technician or a Registered Nurse	American Society of Phlebotomy (ASPT) National Health Career Association or American Medical Technologist Association (AMTA) also known

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		as American Medical Technologist (AMT) Or Medical Lab Assistant Certification (CMLA) or American Society of Clinical Pathology (ASCP) or International Society for Clinical Lab Technology (ISCLT) or West Virginia Board of Examiners for Registered Professional Nurses
Wage-Earning Experience – Complete two years (4000) hours of wage earning experience in a clinical laboratory in a hospital, physician’s office or clinic in the performance of routine laboratory procedures in bacteriology, blood-banking, hematology, urinalysis and serology. The most recent experience must have been within the past three years and beyond the training period.		
7172 Lab Tech-Medical	Medical Lab Technician	(AMT) or Medical Lab Assistant Certification (CMLA) or American Society of Clinical Pathology (ASCP) or International Society for Clinical Lab Technology (ISCLT)
7614 Foundations of Health Science	Hold a Professional Teaching Certificate endorsed for biology, chemistry, general science or health	Complete WVDE sponsored professional development yearly
Wage-Earning Experience – Complete two years (4,000 clock hours) of wage earning experience in a hospital or out-patient clinic with experience in all aspects of respiratory therapy including clinical procedures such as treatments, examinations and documentation. The most recent experience must have been within the past three years and beyond the training period.		
7606 Respiratory Therapy	Certified Respiratory Therapist or Registered Respiratory Therapist	Licensed by the West Virginia Board of Respiratory Therapy
Wage-Earning Experience – Complete two years (4,000 clock hours) of wage earning experience in a hospital or out-patient clinic with experience in all aspects of Surgical Technology including surgical procedures, surgical instrumentation, and operating room policy and surgical procedures. Must also be familiar with central supply certification requirements. The most recent employment experience must have been within the past three years and beyond the training period.		
7607 Surgical Technologist	Certified Surgical Technologist or Certified Technologist/Surgical Assistant	National Board of Surgical Technology and Surgical Assisting

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<p>Wage-Earning Experience – Complete four years (8,000 clock hours) of satisfactory and reasonably continuous work experience in the occupation for which licensure is requested; OR Bachelor’s Degree – Hold a bachelor’s degree AND complete two years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested; OR Associate Degree – Hold an Associate Degree in an area related to the specialization AND complete two (2) years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested.</p> <p>Completion of a full year of training from an approved education program in the specialization may count toward a half year of the work experience requirements. Relevant teaching experience may count as equal to work experience requirements.</p>		
7625 Massage Therapy	National Certification of Therapeutic Massage and Body Work or Federation of State Massage Therapy Board	Hold a valid certificate from the West Virginia Massage Therapy Board and valid Cardiopulmonary Resuscitation (CPR) card.
<p>Wage-Earning Experience -- Hold an Associate Degree in an area related to the specialization AND complete two (2) years (4,000 clock hours) of satisfactory and reasonably continuous work experience in a medical/health care setting with experience in selected health care professions in which a valid certificate or license is held. The most recent must have been within the past 3 years and beyond the training period. OR Bachelor’s Degree in Related Area – Hold a bachelor’s degree in a related area.</p>		
7615 Other Health Occupations	Hold a valid certificate or license from the appropriate state and/or national organization or agency, when applicable	
7966 Biomedical Science	Project Lead the Way Certificate	Project Lead the Way College Affiliates

HOSPITALITY AND TOURISM

Wage earning experience required for the career and technical education alternatively certified teacher in Hospitality and Tourism		
<p>Wage-Earning Experience – Complete four years (8,000 clock hours) of satisfactory and reasonably continuous work experience in the occupation for which licensure is requested; OR Bachelor’s Degree. – Hold a bachelor’s degree AND complete two years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested; OR Associate Degree. – Hold an Associate Degree in an area related to the specialization AND complete two (2) years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested.</p> <p>Completion of a full year of training from an approved education program in the specialization may count toward a half year of the work experience requirements. Relevant teaching experience may count as equal to work experience requirements.</p>		
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7095 Culinary Arts	ServSafe for Managers	National Restaurant Association
7315 Lodging, Travel and Tourism		
7320 Event Planning and Design Production		
0227 Parks and Recreation Management	Cardiopulmonary Resuscitation Instructor Certification, and First Aid	American Red Cross, American Heart Association, American Safety & Health Institute, Emergency Care & Safety Institute, National Safety Council
7967 Baking and Pastry		

HUMAN SERVICES

Wage earning experience required for the career and technical education alternatively certified teacher in Human Services		
<p>Wage-Earning Experience – Complete four years (8,000 clock hours) of satisfactory and reasonably continuous work experience in the occupation for which licensure is requested; OR</p> <p>Bachelor’s Degree. – Hold a bachelor’s degree AND complete two years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested; OR</p> <p>Associate Degree. – Hold an Associate Degree in an area related to the specialization AND complete two (2) years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested.</p> <p>Completion of a full year of training from an approved education program in the specialization may count toward a half year of the work experience requirements. Relevant teaching experience may count as equal to work experience requirements.</p>		
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7185 Social Services Occupation	Valid Cardiopulmonary Resuscitation (CPR) and First Aid Cards	American Red Cross, American Heart Association, American Safety & Health Institute, Emergency Care & Safety Institute, National Safety Council
7065 Cosmetology	Cosmetologists	WV Board of Barbers & Cosmetologists
7473 Barbering	Barber	WV Board of Barbers & Cosmetologists
7317 Early Childhood Education	Valid Cardiopulmonary Resuscitation (CPR) and First Aid Cards	American Red Cross, American Heart Association, American Safety & Health Institute, Emergency Care & Safety Institute, National Safety Council

7627 Direct Support Professional	Valid Cardiopulmonary Resuscitation (CPR) and First Aid Cards	American Red Cross, American Heart Association, American Safety & Health Institute, Emergency Care & Safety Institute, National Safety Council
7626 Personal Fitness and Wellness Training	Valid Cardiopulmonary Resuscitation (CPR) and First Aid Cards	American Red Cross, American Heart Association, American Safety & Health Institute, Emergency Care & Safety Institute, and National Safety Council
7316 Personal Organizer	Valid Cardiopulmonary Resuscitation (CPR) and First Aid Cards	American Red Cross, American Heart Association, American Safety & Health Institute, Emergency Care & Safety Institute, and National Safety Council
7714 Prevention Support Specialist	Valid Cardiopulmonary Resuscitation (CPR) and First Aid Cards	American Red Cross, American Heart Association, American Safety & Health Institute, Emergency Care & Safety Institute, National Safety Council
7728 Nail Technology	Nail Technician	WV Board of Barbers and Cosmetologists
7723 Hair Styling	Hair Stylist	WV Board of Barbers and Cosmetologists

INFORMATION TECHNOLOGY

<p>Wage earning experience required for the career and technical education alternatively certified teacher in Information Technology</p>
<p>Wage-Earning Experience – Complete four years (8,000 clock hours) of satisfactory and reasonably continuous work experience in the occupation for which licensure is requested; OR Bachelor’s Degree. – Hold a bachelor’s degree AND complete two years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested; OR Associate Degree. – Hold an Associate Degree in an area related to the specialization AND complete two (2) years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested.</p> <p>Completion of a full year of training from an approved education program in the specialization may count toward a half year of the work experience requirements. Relevant teaching experience may count as equal to work experience requirements.</p>

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7212 Computer Technology	CompTIA+ 220-801 CompTIA Network+ 220-802	Computing technology Industry Association (CompTIA)
7121 Data Processing Programming		
7134 Electro-Mechanical Technology		
7449 AC Informatics I		Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.
7450 AC Informatics II		
7451 AC Informatics III		
7452 AC Informatics IV		
7954 Networking	CISCO Certified Network Associate (CCNA)	CISCO
7968 Computer Science	Project Lead the Way Certificate	Project Lead the Way College Affiliates
7969 Coding, App And Game Design		Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.

LAW AND PUBLIC SAFETY, CORRECTIONS AND SECURITY

Wage earning experience required for the career and technical education alternatively certified teacher in Law and Public Safety, Corrections and Security		
Wage-Earning Experience – Complete four years (8,000 clock hours) of satisfactory and reasonably continuous work experience in the occupation for which licensure is requested; OR Bachelor’s Degree. – Hold a bachelor’s degree AND complete two years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested; OR Associate Degree. – Hold an Associate Degree in an area related to the specialization AND complete two (2) years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested. Completion of a full year of training from an approved education program in the specialization may count toward a half year of the work experience requirements. Relevant teaching experience may count as equal to work experience requirements.		
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7710 Criminal Justice	Valid Cardiopulmonary Resuscitation (CPR) and First Aid Cards	American Red Cross, American Heart Association, American Safety & Health Institute, Emergency Care & Safety Institute, National Safety Council
License – Hold a current West Virginia EMT or Paramedic License and a current Cardiopulmonary Resuscitation, hereinafter CPR, Instructor Certification and documentation of completion of the field based experience in fire instruction and EMT instructor training; AND Experience – Complete four years (8,000 clock hours) of satisfactory recent work experience with a combination of in fire service and EMT experience, which may include emergency room or emergency medical care; AND Test – Test scores reflecting a minimum of 85% on the West Virginia EMT certification or re-certification examination and on the West Virginia State Fire Commission approved exam for the Fire Fighter 1 and Fire Fighter 2 or the National Fire Protection Association, hereinafter NFPA 1001 National Certification Exam.		
7040 Emergency Services	WV EMT-Basic or Paramedic Certification Instructor Certification; First Aid Certification; Field Based Experience in EMT Training; Field Based Experience in fire service training; Firefighter 1 and Firefighter 2; Materials Operations Level Certification	WV State Fire Commission WV Department of Health & Human Services, Bureau of Public Health, Office of Emergency Medical Services American Red Cross, American Heart Association, American Safety & Health Institute, Emergency Care & Safety Institute, and National Safety Council

<p>7060 Industrial Fire Management</p>	<p>Certified in First Aid; CPR-Instructor Certification; Field Based Experience in fire service training; Fire Fighter 1 and Firefighter 2; and Hazardous Materials Operations Level Certifications.</p>	<p>WV State Fire Commission</p> <p>American Red Cross, American Heart Association, American Safety & Health Institute, Emergency Care & Safety Institute, National Safety Council</p>
<p>7050 Medical Emergency Preparedness</p>	<p>WV EMT-Basic or Paramedic Certification; CPR Instructor Certification First Aid Certification; Field Based Experience in EMT Training</p>	<p>WV Department of Health & Human Services, Bureau of Public Health, Office of Emergency Medical Services</p> <p>American Red Cross, American Heart Association, American Safety & Health Institute, Emergency Care & Safety Institute, National Safety Council</p>

MANUFACTURING

<p align="center">Wage earning experience required for the career and technical education alternatively certified teacher in Manufacturing</p>		
<p>Wage-Earning Experience – Complete four years (8,000 clock hours) of satisfactory and reasonably continuous work experience in the occupation for which licensure is requested; OR Bachelor’s Degree. – Hold a bachelor’s degree AND complete two years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested; OR Associate Degree. – Hold an Associate Degree in an area related to the specialization AND complete two (2) years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested.</p> <p>Completion of a full year of training from an approved education program in the specialization may count toward a half year of the work experience requirements. Relevant teaching experience may count as equal to work experience requirements.</p>		
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7000 Automotive Machining		
7016 Industrial Control Systems		
7164 Computer Integrated Manufacturing		
7131 Electronics Technology	CETa	Electronics Technicians Association (ETA)
7069 Hydraulics/Pneumatics		
7070 Industrial Equipment Maintenance		
7051 Machine Tool Technology	Machining Level 1	National Institute for Metal Working Skills (NIMS)
7469 AC Advanced Manufacturing I		Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.
7470 AC Advanced Manufacturing II		
7471 AC Advanced Manufacturing III		
7472 AC Advanced Manufacturing IV		
7181 Manufacturing Technology		
7092 Millwork and Cabinet		
7052 Welding	SMAW Plate and GMAW Plate in the 2G, 3G and 4G positions	American Welding Society (AWS) or WVDE Welding Certification
7221 Robotics		
7953 Cabling Technology	C-Tech Certification	C-Tech

MARKETING

Wage earning experience required for the career and technical education alternatively certified teacher in Marketing		
<p>Wage-Earning Experience – Complete four years (8,000 clock hours) of satisfactory and reasonably continuous work experience in the occupation for which licensure is requested; OR</p> <p>Bachelor’s Degree. – Hold a bachelor’s degree AND complete two years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested; OR</p> <p>Associate Degree. – Hold an Associate Degree in an area related to the specialization AND complete two (2) years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested.</p> <p>Completion of a full year of training from an approved education program in the specialization may count toward a half year of the work experience requirements. Relevant teaching experience may count as equal to work experience requirements.</p>		
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7727 Marketing Industry		

SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

Wage earning experience required for the career and technical education alternatively certified teacher in Science, Technology, Engineering and Mathematics		
<p>Wage-Earning Experience – Complete four years (8,000 clock hours) of satisfactory and reasonably continuous work experience in the occupation for which licensure is requested; OR</p> <p>Bachelor’s Degree. – Hold a bachelor’s degree AND complete two years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested; OR</p> <p>Associate Degree. – Hold an Associate Degree in an area related to the specialization AND complete two (2) years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested.</p> <p>Completion of a full year of training from an approved education program in the specialization may count toward a half year of the work experience requirements. Relevant teaching experience may count as equal to work experience requirements.</p>		
WVBE ENDORSEMENTS AND ENDORSEMENT CODES AWARDED FOR CTE CONCENTRATIONS	REQUIRED INDUSTRY CREDENTIALS FOR CTE CERTIFICATION	INDUSTRY CREDENITLING ORGANIZATION/S
0608 Technology Education		
7441 AC Aerospace Engineering I		Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.
7442 AC Aerospace Engineering II		
7443 AC Aerospace Engineering III		
7444 AC Aerospace Engineering IV		
7461 AC Clean Energy I		Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.
7462 AC Clean Energy II		
7463 AC Clean Energy III		

7464 AC Clean Energy IV		
7465 AC Energy, Power, and Engineered Systems I		Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.
7466 AC Energy, Power, and Engineered Systems II		
7467 AC Energy, Power, and Engineered Systems III		
7468 AC Energy, Power, and Engineered Systems IV		
7445 AC Innovations in Science and Technology I		Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.
7446 AC Innovations in Science and Technology II		
7447 AC Innovations in Science and Technology III		
7448 AC Innovations in Science and Technology IV		
7550 Pre-Engineering	Project Lead the Way Certificate	Project Lead the Way College Affiliates

TRANSPORTATION, DISTRIBUTION AND LOGISTICS

<p style="text-align: center;">Wage earning experience required for the career and technical education alternatively certified teacher in Transportation, Distribution and Logistics</p>		
<p>Wage-Earning Experience – Complete four years (8,000 clock hours) of satisfactory and reasonably continuous work experience in the occupation for which licensure is requested; OR Bachelor’s Degree. – Hold a bachelor’s degree AND complete two years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested; OR Associate Degree. – Hold an Associate Degree in an area related to the specialization AND complete two (2) years (4,000 clock hours) of satisfactory and reasonably continuous work experience in the area for which licensure is requested. Completion of a full year of training from an approved education program in the specialization may count toward a half year of the work experience requirements. Relevant teaching experience may count as equal to work experience requirements.</p>		
WVBE ENDORSEMENTS AND ENDORSEMENT CODES AWARDED FOR CTE CONCENTRATIONS	REQUIRED INDUSTRY CREDENTIALS FOR CTE CERTIFICATION	INDUSTRY CREDENTIALIZING ORGANIZATION/S
7001 Automotive Technology	Engine Performance Brakes Electrical/Electronics Systems Suspension/Steering	National Institute for Automotive Service Excellence (ASE)
7007 Diesel Equipment Technology	Diesel Engines Suspension/Steering Brakes Electrical/Electronics Systems Preventative Maintenance Inspection	National Institute for Automotive Service Excellence (ASE)
7010 Collision Repair	Structural Non-Structural Painting/Refinishing Mechanical/Electrical	National Institute for Automotive Service Excellence (ASE)
7453 AC Global Logistics and Supply Chain Management I		Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.
7454 AC Global Logistics and Supply Chain Management I		
7455 AC Global Logistics and Supply Chain Management I		
7456 AC Global Logistics and Supply Chain Management I		
7098 Materials Distribution		
7006 Power Equipment Technology		
7960 Commercial Driver’s License	Commercial Driver’s License (CDL)	West Virginia Department of Transportation, Division of Motor Vehicles
7180 Transportation Technology		

¹Exemptions to the Basic Skills Tests are identified in §126-136-10.1.b.3.F.1

²The testing components and scores established for the renewal of a permit are also required for the issuance of a Career/Technical Certificate.

³If a NOCTI test or a national or state certificate or license is not available, content specialization test may be developed or obtained from other sources.

⁴The minimum score for passing the NOCTI test shall be one-half standard deviation below the mean plus the standard error of measurement.

⁵Three years of relevant teaching experience within the last seven years in one or combination of specializations recognized on a valid Out-of-State Career and Technical Education Certificate may be accepted in place of the wage earning experience requirements of Appendix C.

⁶If continuously employed on a First-Class/Full-Time Permit for Career and Technical Education (CTE), an individual who holds an endorsement no longer included in Appendix C., may use the criteria effective at the time of application for the initial First Class/Full Time permit when applying for permit renewal or initial CTE certification.

TABLE 3 Content Written and Performance Test and Industry Credentials

Endorsement Name	NOCTI	Exam	1 Year to Earn Industry Credential	Industry Credential Required Prior to Being Hired
AGRICULTURE, FOOD AND NATURAL RESOURCES				
7720 Agriculture Industry	X			
7410 Forestry	X		X	
7215 ARCGIS				
7726 Mining Extraction			X	
7430 Oil/Gas Extraction and Distribution			X	
7962 Pet Grooming				
7963 Taxidermy				
7964 Environmental Technology and Management				
ARCHITECTURE AND CONSTRUCTION CLUSTER				
7083 Air Conditioning and Refrigeration			Expired Credential	X
7105 Civil Technology			X	
7030 Electrical Technology				X
7021 Carpentry	X		X	
7027 Building Maintenance & Operations	X		X	
7028 General Building Construction (House Construction)	X		X	
7022 Masonry	X		X	
7073 Operation/Maintenance-Heavy Equipment	X		X	
7023 Plumber and Pipefitting				X
ARTS, A/V TECHNOLOGY AND COMMUNICATIONS				
7175 Broadcasting Technology	X		X	
7012 Commercial Art	X		X	
7026 Painting-Decorating			X	
7132 Communication Technology	X		X	
7014 Graphic Arts	X		X	
7015 Offset Printing	X		X	
BUSINESS MANAGEMENT & ADMINISTRATION				
7721 Business Management & Administration Industry				
FINANCE				
7722 Finance				
HEALTH SCIENCE EDUCATION				
7457 AC Health Informatics I			X	
7458 AC Health Informatics II			X	
7459 AC Health Informatics III			X	
7460 AC Health Informatics IV			X	
7048 Health Assistant				X

Endorsement Name	NOCTI Exam	1 Year to Earn Industry Credential	Industry Credential Required Prior to Being Hired
7042 Nursing Aide			X
7403 Veterinary Technician			X
7041 Practical Nursing (LPN)			X
7043 Dental Assistant			X
7171 Dental Lab Technician			X
7724 Health Informatics			X
7045 Medical Assistant			X
7050 Medical Emergency Preparedness			X
7608 Pharmacy Technician			X
7603 Phlebotomist			X
7172 Lab Tech-Medical			X
7614 Foundations of Health Science			X
7606 Respiratory Therapy			X
7607 Surgical Technologist			X
7625 Massage Therapy			X
7615 Health Occupations		X	
7966 Biomedical Science			
HOSPITALITY AND TOURISM			
7095 Culinary Arts	X	X	
7315 Lodging, Travel and Tourism	X		
7320 Event Planning and Design Production			
0227 Parks and Recreation Management		X	
7967 Baking and Pastry	X		
HUMAN SERVICES			
7185 Social Services Occupation		X	
7065 Cosmetology			X
7473 Barbering			X
7317 Early Childhood Education	X	X	
7627 Direct Support Professional		X	
7626 Personal Fitness and Wellness Training		X	
7316 Personal Organizer		X	
7714 Prevention Support Specialist		X	
7728 Nail Technology	Nail Technician		X
7723 Hair Styling	Hair Stylist		X
INFORMATION TECHNOLOGY			
7212 Computer Technology		X	
7121 Data Processing Programming		X	
7134 Electro-Mechanical Technology		X	
7449 AC Informatics I		X	
7450 AC Informatics II		X	
7451 AC Informatics III		X	
7452 AC Informatics IV		X	

Endorsement Name	NOCTI	Exam	1 Year to Earn Industry Credential	Industry Credential Required Prior to Being Hired
7954 Networking				X
7968 Computer Science				
7969 Coding, App And Game Design				
LAW AND PUBLIC SAFETY, CORRECTIONS AND SECURITY				
7710 Criminal Justice	X		X	
7040 Emergency Services				X
7060 Industrial Fire Management				X
7050 Medical Emergency Preparedness				X
MANUFACTURING				
7000 Automotive Machining			X	
7016 Industrial Control Systems			X	
7164 Computer Integrated Manufacturing			X	
7131 Electronics Technology			X	
7069 Hydraulics/Pneumatics			X	
7070 Industrial Equipment Maintenance	X		X	
7051 Machine Tool Technology			X	
7469 AC Advanced Manufacturing I			X	
7470 AC Advanced Manufacturing II			X	
7471 AC Advanced Manufacturing III			X	
7472 AC Advanced Manufacturing IV			X	
7181 Manufacturing Technology				
7092 Millwork and Cabinet	X		X	
7052 Welding				X
7221 Robotics			X	
7953 Cabling Technology			X	
MARKETING				
7727 Marketing Industry				
SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS				
0608 Technology Education			X	
7441 AC Aerospace Engineering I			X	
7442 AC Aerospace Engineering II			X	
7443 AC Aerospace Engineering III			X	
7444 AC Aerospace Engineering IV			X	
7461 AC Clean Energy I			X	
7462 AC Clean Energy II			X	
7463 AC Clean Energy III			X	
7464 AC Clean Energy IV			X	
7465 AC Energy, Power, and Engineered Systems I			X	
7466 AC Energy, Power, and Engineered Systems II			X	
7467 AC Energy, Power, and Engineered Systems III			X	

Endorsement Name	NOCTI	Exam	1 Year to Earn Industry Credential	Industry Credential Required Prior to Being Hired
7468 AC Energy, Power, and Engineered Systems IV			X	
7445 AC Innovations in Science and Technology I			X	
7446 AC Innovations in Science and Technology II			X	
7447 AC Innovations in Science and Technology III			X	
7448 AC Innovations in Science and Technology IV			X	
7550 Pre-Engineering			X	
TRANSPORTATION, DISTRIBUTION AND LOGISTICS				
7001 Automotive Technology			Expired Credential	X
7007 Diesel Equipment Technology			Expired Credential	X
7010 Collision Repair			Expired Credential	X
7453 AC Global Logistics and Supply Chain Management I			X	
7454 AC Global Logistics and Supply Chain Management I			X	
7455 AC Global Logistics and Supply Chain Management I			X	
7456 AC Global Logistics and Supply Chain Management I			X	
7098 Materials Distribution	X		X	
7006 Power Equipment Technology	X		X	
7960 Commercial Driver's License				X
7180 Transportation Technology			X	

TABLE 3.1 Content Written and Performance Test and Industry Credentials
 Section 1
 NOCTI exam requirements

AGRICULTURE, FOOD AND NATURAL RESOURCES

WVBE ENDORSEMENTS AND ENDORSEMENT CODES AWARDED FOR CTE CONCENTRATIONS
7720 Agriculture Industry, NOCTI #3063
7410 Forestry, NOCTI # 3037 Forest Products and Processing

ARCHITECTURE AND CONSTRUCTION

7021 Carpentry, NOCTI #5165 -- Carpentry
7027 Building Maintenance & Operations, NOCTI #5164 – Building Trades Maintenance
7028 General Building Construction (House Construction), NOCTI #5163 – Building Construction Occupations
7022 Masonry, NOCTI #4125 -- Construction Masonry-Brick
7073 Operation/Maintenance-Heavy Equipment, NOCTI #3046 -- Heavy Equipment Maintenance and Repair

ARTS, A/V TECHNOLOGY AND COMMUNICATIONS

7175 Broadcasting Technology, NOCTI #3005 -- Audio-Visual Communications
7012 Commercial Art, NOCTI #5161—Advertising and Design
7132 Communication Technology, NOCTI # 3005 -- Audio-Visual Communications
7014 Graphic Arts, NOCTI #4242 -- Graphic Production Technology
7015 Offset Printing, NOCTI #4242 -- Graphic Production Technology

HOSPITALITY AND TOURISM

7095 Culinary Arts, NOCTI #5167 – Commercial Foods
7315 Lodging, Travel and Tourism, NOCTI #1288 -- Travel and Tourism
7967 Baking and Pastry, NOCTI #4010 – Retail Commercial Baking

HUMAN SERVICES

7317 Early Childhood Education, NOCTI #4017 -- Early Childhood Education and Care-Advanced **Individuals who hold a valid West Virginia Professional Teaching Certificate with an endorsement in 3600 (Elementary Education), 3601 (Early Childhood), 3602 (Primary), 3603 (Early Education), or 3606 (Pre-School Education) are exempt from the NOCTI Exam #4017 (Early Childhood Education and Care-Advanced)
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LAW AND PUBLIC SAFETY, CORRECTIONS AND SECURITY

7710 Criminal Justice, NOCTI #5169 – Criminal Justice

MANUFACTURING

7070 Industrial Equipment Maintenance, NOCTI #5174 – Industrial Maintenance Mechanics
7092 Millwork and Cabinet, NOCTI #3014 Cabinet Making

TRANSPORTATION

7098 Materials Distribution, NOCTI #2071 – Logistics Technology-Distribution Center Services
7006 Power Equipment Technology, NOCTI #4068 – Small Engine Technology

TABLE 3.2 Content Written and Performance Test and Industry Credentials

Section 2

Industry credentials that meet the NOCTI exam requirements
and have 1 year to earn industry credential

AGRICULTURE, FOOD AND NATURAL RESOURCES

WVBE ENDORSEMENTS AND ENDORSEMENT CODES AWARDED FOR CTE CONCENTRATIONS	REQUIRED INDUSTRY CREDENTIALS FOR CTE CERTIFICATION
7720 Agriculture Industry	Complete WVDE-approved program
7215 ARCGIS	None
7430 Oil/Gas Extraction and Distribution	None
7726 Mining Extraction	40 hr Surface Mining and 80 hr underground Mining Certificates
7962 Pet Grooming	Complete WVDE-approved program
7963 Taxidermy	None
7964 Environmental Technology and Management	None

ARCHITECTURE AND CONSTRUCTION

With Expired Credential 7083 Air Conditioning and Refrigeration	AHRI Industry Competency Exam Entry Level Residential Heating & Cooling Technician
	Recovery & Recycling Certification Air-Conditioning Refrigeration Institute (ARI)
7105 Civil Technology	Certified Drafters – Architectural or Certified Drafters Mechanical Or Certified Drafters - Civil

ARTS, A/V TECHNOLOGY AND COMMUNICATIONS

7445 AC Innovations in Science and Technology I	Complete WVDE-approved program
7446 AC Innovations in Science and Technology II	Complete WVDE-approved program
7447 AC Innovations in Science and Technology III	Complete WVDE-approved program
7448 AC Innovations in Science and Technology IV	Complete WVDE-approved program
7026 Painting-Decorating	None

BUSINESS MANAGEMENT & ADMINISTRATION

7721 Business Management & Administration Industry	None
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FINANCE

7722 Finance Industry	None
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HEALTH SCIENCE EDUCATION

7457 AC Health Informatics I	Complete WVDE-approved program
7458 AC Health Informatics II	Complete WVDE-approved program
7459 AC Health Informatics III	Complete WVDE-approved program
7460 AC Health Informatics IV	Complete WVDE-approved program
7615 Health Occupations	Complete WVDE-approved program
7966 Biomedical Science	Project Lead the Way Certificate

HOSPITALITY AND TOURISM

0227 Parks and Recreation Management	Cardiopulmonary Resuscitation Instructor Certification, and First Aid
7320 Event Planning and Design Production	None
7967 Baking and Pastry	None

HUMAN SERVICES

7185 Social Services Occupation	Valid Cardiopulmonary Resuscitation (CPR) and First Aid Cards
7315 Lodging, Travel and Tourism	None
7627 Direct Support Professional	Valid Cardiopulmonary Resuscitation (CPR) and First Aid Cards
7626 Personal Fitness and Wellness Training	Valid Cardiopulmonary Resuscitation (CPR) and First Aid Cards
7316 Personal Organizer	None
7714 Prevention Support Specialist	Valid Cardiopulmonary Resuscitation (CPR) and First Aid Cards

INFORMATION TECHNOLOGY

7212 Computer Technology	Comp Tia A+ 220-801, Comp Tia A+ 220-802
7121 Data Processing Programming	None
7134 Electro-Mechanical Technology	None
7449 AC Informatics I	Complete WVDE-approved program
7450 AC Informatics II	Complete WVDE-approved program
7451 AC Informatics III	Complete WVDE-approved program
7452 AC Informatics IV	Complete WVDE-approved program
7968 Computer Science	Project Lead the Way Certificate
7969 Coding, App And Game Design	Complete WVDE approved program

MANUFACTURING

7725 Manufacturing Industry	None
7000 Automotive Machining	None
7016 Industrial Control Systems	None
7164 Computer Integrated Manufacturing	None
7131 Electronics Technology	CETa
7069 Hydraulics/Pneumatics	None
7051 Machine Tool Technology	Machining Level 1
7469 AC Advanced Manufacturing I	Complete WVDE-approved program
7470 AC Advanced Manufacturing II	Complete WVDE-approved program
7471 AC Advanced Manufacturing III	Complete WVDE-approved program

7472 AC Advanced Manufacturing IV	Complete WVDE-approved program
7221 Robotics	None
7953 Cabling Technology	C-Tech Certification

SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

7461 AC Clean Energy I	Complete WVDE-approved program
7462 AC Clean Energy II	Complete WVDE-approved program
7463 AC Clean Energy III	Complete WVDE-approved program
7464 AC Clean Energy IV	Complete WVDE-approved program
7465 AC Energy, Power, and Engineered Systems I	Complete WVDE-approved program
7466 AC Energy, Power, and Engineered Systems II	Complete WVDE-approved program
7467 AC Energy, Power, and Engineered Systems III	Complete WVDE-approved program
7468 AC Energy, Power, and Engineered Systems IV	Complete WVDE-approved program
0608 Technology Education	None
7550 Pre-Engineering	Project Lead the Way Certificate

TRANSPORTATION, DISTRIBUTION AND LOGISTICS

With Expired Credential 7001 Automotive Technology	Engine Performance, Brakes, Electrical/Electronics Systems Suspension/Steering
With Expired Credential 7007 Diesel Equipment Technology	Diesel Engines, Suspension/Steering, Brakes, Electrical/Electronics, Systems, Preventative Maintenance, Inspection
Expired Credential 7010 Collision Repair	Structural Analysis & Damage Repair, Non-Structural Analysis & Damage Repair, Painting/Refinishing, Mechanical/Electrical
7006 Power Equipment Technology	None
7453 AC Global Logistics and Supply Chain Management I	Complete WVDE-approved program
7454 AC Global Logistics and Supply Chain Management II	Complete WVDE-approved program
7455 AC Global Logistics and Supply Chain Management III	Complete WVDE-approved program
7456 AC Global Logistics and Supply Chain Management IV	Complete WVDE-approved program
7098 Materials Distribution	None
7180 Transportation Technology	None

TABLE 3.3 Content Written and Performance Test and Industry Credentials

Section 3 Mandatory credentials prior to being hired that meet NOCTI exam requirements

ARCHITECTURE AND CONSTRUCTION

WVBE ENDORSEMENTS AND ENDORSEMENT CODES AWARDED FOR CTE CONCENTRATIONS	REQUIRED INDUSTRY CREDENTIALS FOR CTE CERTIFICATION
7083 Air Conditioning and Refrigeration	AHRI Industry Competency Exam, Entry Level Residential Heating & Cooling Technician Recovery & Recycling Certification , Air-Conditioning Refrigeration Institute (ARI)
7030 Electrical Technology	Master Electrician License
7023 Plumber and Pipefitting	WV Master Plumber's License

HEALTH SCIENCE EDUCATION

7403 Veterinary Technician	Licensed Veterinarian, or Veterinary Technician
7048 Health Assistant	Valid West Virginia License as Registered Nurse (RN)
7042 Nursing Aide	Valid West Virginia License as Registered Nurse (RN) AND one year (2000 hours) long term care experience.
7041 Practical Nursing (LPN)	Valid West Virginia License as Registered Nurse (RN)
7043 Dental Assistant	Certified Dental Assistant
7171 Dental Lab Technician	Dental Lab Technician Or Dentist
7724 Health Informatics	Medical Assistant or Valid West Virginia Licenses as Registered Nurse (RN) Or healthcare experience and hold a certification by the American Health Informatics Association Or Certified Coding Associate, Certified Coding Specialist or a Registered Health Information Technician.
7045 Medical Assistant	Medical Assistant Or Valid West Virginia License as Registered Nurse (RN)
7050 Medical Emergency Preparedness	First Aid Certification; Field Based Experience in EMT Training
7608 Pharmacy Technician	Certified Pharmacy Technician (CPhT) or Registered Pharmacy Technician (RPT) or West Virginia License as Registered Nurse (RN)
7603 Phlebotomist	Valid Certified Phlebotomy certification or West Virginia License as Registered Nurse (RN)
7172 Lab Tech-Medical	Medical Lab Technician or Certified Medical Laboratory Assistant
7614 Foundations of Health Science	Hold a Professional Teaching Certificate endorsed for biology, chemistry, general science or health
7606 Respiratory Therapy	Certified Respiratory Therapist or Registered Respiratory Therapist
7607 Surgical Technologist	Certified Surgical Technologist or Certified Surgical Technologist/Surgical Assistant

7625 Massage Therapy	National Certification of Therapeutic Massage and Body Work of Federation of State Massage Therapy Board
7614 Foundations of Health Science	West Virginia Professional Teaching Certificate endorsed for biology, chemistry, general science or health
7966 Biomedical Science	Project Lead the Way Certificate

HUMAN SERVICES

7065 Cosmetology	Cosmetologists
7473 Barbering	Barber
7728 Nail Technology	Nail Technician
7723 Hair Styling	Hair Stylist

INFORMATION TECHNOLOGY

7954 Networking	CISCO Certified Network Associate (CCNA) Certification
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LAW AND PUBLIC SAFETY, CORRECTIONS AND SECURITY

7040 Emergency Services	WV EMT-Basic or Paramedic Certification; CPR Instructor Certification; First Aid Certification; Field Based Experience in EMT Training; Field Based Experience in fire service training; Firefighter 1 and Firefighter 2; Materials Operations Level Certification
7060 Industrial Fire Management	Certified in First Aid, EMT, or Paramedic; CPR-Instructor Certification; Field Based Experience in fire service training; Fire Fighter 1 and Firefighter 2; and Hazardous Materials Operations Level Certifications.
7050 Medical Emergency Preparedness	WV EMT-Basic or Paramedic Certification; CPR Instructor Certification; First Aid Certification; Field Based Experience in EMT Training
7052 Welding	SMAW Plate and GMAW Plate in the 2G, 3G and 4G positions

SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

7550 Pre-Engineering	Project Lead the Way Certificate AND Bachelor's Degree
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TRANSPORTATION, DISTRIBUTION AND LOGISTICS

7001 Automotive Technology	Engine Performance, Brakes, Electrical/Electronics Systems, Suspension/Steering
7007 Diesel Equipment Technology	Diesel Engines, Suspension/Steering, Brakes, Electrical/Electronics Systems Preventative Maintenance, Inspection
7010 Collision Repair	Structural Analysis & Damage Repair, Non-Structural Analysis & Damage Repair, Painting/Refinishing, Mechanical/Electrical
7960 Commercial Driver's License	CDL License

TABLE 4: CTE Permanent Advanced Credentials

WVBE ADVANCED CREDENTIAL AND CODE AWARDED FOR CTE CONCENTRATIONS	CERTIFICATE REQUIREMENTS	PROFESSIONAL DEVELOPMENT/ COURSE WORK
0560 Business Education	Hold a valid West Virginia Professional Certificate endorsed at a minimum for one of the following: 0710 Marketing Education or 0700 Distributive Education.	Successful completion of fifteen (15) clock hours of professional development approved by the WVDE, and successful completion of assignments related to Business Education programs offered by the WVDE.
0561 Marketing Education	Hold a valid West Virginia Professional Certificate; endorsed for one, at a minimum, of the following: 0400 Business Principles; 0419 Business Principles including Business Mathematics; 0500 Secretarial Studies or Occupation Commerce; 0519 Secretarial Studies including Business Mathematics; 0600 Business Education; 0605 Business Education including Business Math; or 0700 Distributive Education.	Successful completion of fifteen (15) clock hours of WVDE-approved professional development and successful completion of assignments related to Marketing Education programs offered by the WVDE.
7702 Coordinator of Career and Work Skills Training	Career and Technical Education Certificate or a Professional Teaching Certificate endorsed for a specialization in engineering technical, human services, agriculture, food and natural resources, health science education, marketing education or business education.	Complete a minimum of one year (2,000 clock hours) of related wage earning experience in a non-teaching position.
7707 Careers in Education	Valid Certificate. Hold a Career and Technical Education Certificate or a Professional Teaching Certificate.	Complete professional development and/or coursework related to Careers in Education training programs in

WVBE ADVANCED CREDENTIAL AND CODE AWARDED FOR CTE CONCENTRATIONS	CERTIFICATE REQUIREMENTS	PROFESSIONAL DEVELOPMENT/ COURSE WORK
		Career and Technical Education as specified by the WVDE.
7703 ORACLE	Hold a Career and Technical Education Certificate or a Professional Teaching Certificate.	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.
7704 Certified Internet Webmaster	Hold a Career and Technical Education Certificate or a Professional Teaching Certificate.	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.
7705 Gateway	Hold a Career and Technical Education Certificate or a Professional Teaching Certificate.	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.
7441 AC Aerospace Engineering I	Hold a teaching certification in one of the following areas: 0608 Technology Education 1800 Industrial Arts 1801 General Shop 1802 Technical Education 2500 Physics 2910 Earth/Space Science 2710 Chemistry/Physics 7550 Pre-Engineering	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.
7442 AC Aerospace Engineering II	Hold a teaching certification in one of the following areas: 0608 Technology Education 1800 Industrial Arts 1801 General Shop 1802 Technical Education 2500 Physics 2910 Earth/Space Science 2710 Chemistry/Physics 7550 Pre-Engineering	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.
7443 AC Aerospace Engineering III	Hold a teaching certification in one of the following areas: 0608 Technology Education	Complete professional development and/or WVDE-approved

WVBE ADVANCED CREDENTIAL AND CODE AWARDED FOR CTE CONCENTRATIONS	CERTIFICATE REQUIREMENTS	PROFESSIONAL DEVELOPMENT/ COURSE WORK
	1800 Industrial Arts 1801 General Shop 1802 Technical Education 2500 Physics 2910 Earth/Space Science 2710 Chemistry/Physics 7550 Pre-Engineering	coursework related to Career and Technical Education.
7444 AC Aerospace Engineering IV	Hold a teaching certification in one of the following areas: 0608 Technology Education 1800 Industrial Arts 1801 General Shop 1802 Technical Education 2500 Physics 2910 Earth/Space Science 2710 Chemistry/Physics 7550 Pre-Engineering	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.
7445 AC Innovations in Science and Technology I	Hold a teaching certification in one of the following areas: 2500 Physics 2600 Biological Sciences 2700 Chemistry 2705 Chemistry through Chemistry I 2710 Chemistry/Physics 2800 Physical Science 2900 General Science 2910 Earth/Space Science 2915 General/Physical Science 1900 Mathematics 1905 Math Through Algebra I 0608 Technology Education 1800 Industrial Arts 1801 General Shop 1802 Technical Education	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.
7446 AC Innovations in Science and Technology II	Hold a teaching certification in one of the following areas: 2500 Physics 2600 Biological Sciences 2700 Chemistry 2705 Chemistry through Chemistry I 2710 Chemistry/Physics	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.

WVBE ADVANCED CREDENTIAL AND CODE AWARDED FOR CTE CONCENTRATIONS	CERTIFICATE REQUIREMENTS	PROFESSIONAL DEVELOPMENT/ COURSE WORK
	2800 Physical Science 2900 General Science 2910 Earth/Space Science 2915 General/Physical Science 1900 Mathematics 1905 Math Through Algebra I 0608 Technology Education 1800 Industrial Arts 1801 General Shop 1802 Technical Education	
7447 AC Innovations in Science and Technology III	Hold a teaching certification in one of the following areas: 2500 Physics 2600 Biological Sciences 2700 Chemistry 2705 Chemistry through Chemistry I 2710 Chemistry/Physics 2800 Physical Science 2900 General Science 2910 Earth/Space Science 2915 General/Physical Science 1900 Mathematics 1905 Math Through Algebra I 0608 Technology Education 1800 Industrial Arts 1801 General Shop 1802 Technical Education	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.
7448 AC Innovations in Science and Technology IV	Hold a teaching certification in one of the following areas: 2500 Physics 2600 Biological Sciences 2700 Chemistry 2705 Chemistry through Chemistry I 2710 Chemistry/Physics 2800 Physical Science 2900 General Science 2910 Earth/Space Science 2915 General/Physical Science 1900 Mathematics	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.

WVBE ADVANCED CREDENTIAL AND CODE AWARDED FOR CTE CONCENTRATIONS	CERTIFICATE REQUIREMENTS	PROFESSIONAL DEVELOPMENT/ COURSE WORK
	1905 Math Through Algebra I 0608 Technology Education 1800 Industrial Arts 1801 General Shop 1802 Technical Education	
7449 AC Informatics I	Hold a teaching certification in one of the following areas: 0400 Business Principles 0419 Business Principles including Business Mathematics 0500 Secretarial Studies or Occupation Commerce 0519 Secretarial Studies including Business Mathematics 0560 Business Education Specialist 0561 Marketing Education Specialist 0600 Business Education 0603 Business Education/Marketing 0608 Technology Education 7037 Industrial Electronics 7121 Data Processing Programming] 7212 Computer Technology	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.
7450 AC Informatics II	Hold a teaching certification in one of the following areas: 0400 Business Principles 0419 Business Principles including Business Mathematics 0500 Secretarial Studies or Occupation Commerce 0519 Secretarial Studies including Business Mathematics 0560 Business Education Specialist 0561 Marketing Education Specialist 0600 Business Education	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.

WVBE ADVANCED CREDENTIAL AND CODE AWARDED FOR CTE CONCENTRATIONS	CERTIFICATE REQUIREMENTS	PROFESSIONAL DEVELOPMENT/ COURSE WORK
	0603 Business Education/Marketing 0608 Technology Education 7037 Industrial Electronics 7121 Data Processing Programming] 7212 Computer Technology	
7451 AC Informatics III	Hold a teaching certification in one of the following areas: 0400 Business Principles 0419 Business Principles including Business Mathematics 0500 Secretarial Studies or Occupation Commerce 0519 Secretarial Studies including Business Mathematics 0560 Business Education Specialist 0561 Marketing Education Specialist 0600 Business Education 0603 Business Education/Marketing 0608 Technology Education 7037 Industrial Electronics 7121 Data Processing Programming] 7212 Computer Technology	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.
7452 AC Informatics IV	Hold a teaching certification in one of the following areas: 0400 Business Principles 0419 Business Principles including Business Mathematics 0500 Secretarial Studies or Occupation Commerce 0519 Secretarial Studies including Business Mathematics 0560 Business Education Specialist 0561 Marketing Education Specialist	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.

WVBE ADVANCED CREDENTIAL AND CODE AWARDED FOR CTE CONCENTRATIONS	CERTIFICATE REQUIREMENTS	PROFESSIONAL DEVELOPMENT/ COURSE WORK
	0600 Business Education 0603 Business Education/Marketing 0608 Technology Education 7037 Industrial Electronics 7121 Data Processing Programming] 7212 Computer Technology	
7453 AC Global Logistics and Supply Chain Management I	Hold a teaching certification in one of the following areas: 7098 Materials Distribution 7180 Transportation Technology	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.
7454 AC Global Logistics and Supply Chain Management II	Hold a teaching certification in one of the following areas: 7098 Materials Distribution 7180 Transportation Technology	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.
7455 AC Global Logistics and Supply Chain Management III	Hold a teaching certification in one of the following areas: 7098 Materials Distribution 7180 Transportation Technology	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.
7456 AC Global Logistics and Supply Chain Management IV	Hold a teaching certification in one of the following areas: 7098 Materials Distribution 7180 Transportation Technology	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.
7457 AC Health Informatics I	Hold a teaching certification in one of the following areas: 0400 Business Principles 0419 Business Principles including Business Mathematics 0500 Secretarial Studies or Occupation Commerce 0519 Secretarial Studies including Business Mathematics	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.

WVBE ADVANCED CREDENTIAL AND CODE AWARDED FOR CTE CONCENTRATIONS	CERTIFICATE REQUIREMENTS	PROFESSIONAL DEVELOPMENT/ COURSE WORK
	0560 Business Education Specialist 0561 Marketing Education Specialist 0600 Business Education 0603 Business Education/Marketing 7212 Computer Technology 7604 Medical Transcription 7610 Medical Records	
7458 AC Health Informatics II	Hold a teaching certification in one of the following areas: 0400 Business Principles 0419 Business Principles including Business Mathematics 0500 Secretarial Studies or Occupation Commerce 0519 Secretarial Studies including Business Mathematics 0560 Business Education Specialist 0561 Marketing Education Specialist 0600 Business Education 0603 Business Education/Marketing 7212 Computer Technology 7604 Medical Transcription 7610 Medical Records	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.
7459 AC Health Informatics III	Hold a teaching certification in one of the following areas: 0400 Business Principles 0419 Business Principles including Business Mathematics 0500 Secretarial Studies or Occupation Commerce 0519 Secretarial Studies including Business Mathematics 0560 Business Education Specialist	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.

WVBE ADVANCED CREDENTIAL AND CODE AWARDED FOR CTE CONCENTRATIONS	CERTIFICATE REQUIREMENTS	PROFESSIONAL DEVELOPMENT/ COURSE WORK
	0561 Marketing Education Specialist 0600 Business Education 0603 Business Education/Marketing 7212 Computer Technology 7604 Medical Transcription 7610 Medical Records	
7460 AC Health Informatics IV	Hold a teaching certification in one of the following areas: 0400 Business Principles 0419 Business Principles including Business Mathematics 0500 Secretarial Studies or Occupation Commerce 0519 Secretarial Studies including Business Mathematics 0560 Business Education Specialist 0561 Marketing Education Specialist 0600 Business Education 0603 Business Education/Marketing 7212 Computer Technology 7604 Medical Transcription 7610 Medical Records	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.
7461 AC Clean Energy I	Hold a teaching certification in one of the following areas: 2500 Physics 2600 Biological Sciences 2700 Chemistry 2705 Chemistry through Chemistry I 2710 Chemistry/Physics 2800 Physical Science 2900 General Science 2910 Earth/Space Science 2915 General/Physical Science 1900 Mathematics 1905 Math Through Algebra I	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.

WVBE ADVANCED CREDENTIAL AND CODE AWARDED FOR CTE CONCENTRATIONS	CERTIFICATE REQUIREMENTS	PROFESSIONAL DEVELOPMENT/ COURSE WORK
	0608 Technology Education 1800 Industrial Arts 1801 General Shop 1802 Technical Education 7030 Electrical Technology 7031 Industrial Electricity 7035 General Electrical Occupations 7083 Air Condition and Refrigeration 7131 Electronics Technology	
7462 AC Clean Energy II	Hold a teaching certification in one of the following areas: 2500 Physics 2600 Biological Sciences 2700 Chemistry 2705 Chemistry through Chemistry I 2710 Chemistry/Physics 2800 Physical Science 2900 General Science 2910 Earth/Space Science 2915 General/Physical Science 1900 Mathematics 1905 Math Through Algebra I 0608 Technology Education 1800 Industrial Arts 1801 General Shop 1802 Technical Education 7030 Electrical Technology 7031 Industrial Electricity 7035 General Electrical Occupations 7083 Air Condition and Refrigeration 7131 Electronics Technology	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.
7463 AC Clean Energy III	Hold a teaching certification in one of the following areas: 2500 Physics 2600 Biological Sciences 2700 Chemistry 2705 Chemistry through Chemistry I 2710 Chemistry/Physics	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.

WVBE ADVANCED CREDENTIAL AND CODE AWARDED FOR CTE CONCENTRATIONS	CERTIFICATE REQUIREMENTS	PROFESSIONAL DEVELOPMENT/ COURSE WORK
	2800 Physical Science 2900 General Science 2910 Earth/Space Science 2915 General/Physical Science 1900 Mathematics 1905 Math Through Algebra I 0608 Technology Education 1800 Industrial Arts 1801 General Shop 1802 Technical Education 7030 Electrical Technology 7031 Industrial Electricity 7035 General Electrical Occupations 7083 Air Condition and Refrigeration 7131 Electronics Technology	
7464 AC Clean Energy IV	Hold a teaching certification in one of the following areas: 2500 Physics 2600 Biological Sciences 2700 Chemistry 2705 Chemistry through Chemistry I 2710 Chemistry/Physics 2800 Physical Science 2900 General Science 2910 Earth/Space Science 2915 General/Physical Science 1900 Mathematics 1905 Math Through Algebra I 0608 Technology Education 1800 Industrial Arts 1801 General Shop 1802 Technical Education 7030 Electrical Technology 7031 Industrial Electricity 7035 General Electrical Occupations 7083 Air Condition and Refrigeration 7131 Electronics Technology	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.

WVBE ADVANCED CREDENTIAL AND CODE AWARDED FOR CTE CONCENTRATIONS	CERTIFICATE REQUIREMENTS	PROFESSIONAL DEVELOPMENT/ COURSE WORK
7465 AC Energy, Power, and Engineered Systems I	Hold a teaching certification in one of the following areas: 2500 Physics 2710 Chemistry/Physics 1900 Mathematics 1905 Math Through Algebra I 0608 Technology Education 1800 Industrial Arts 1801 General Shop 1802 Technical Education 7030 Electrical Technology 7031 Industrial Electricity 7035 General Electrical Occupations 7131 Electronics Technology	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.
7466 AC Energy, Power, and Engineered Systems II	Hold a teaching certification in one of the following areas: 2500 Physics 2710 Chemistry/Physics 1900 Mathematics 1905 Math Through Algebra I 0608 Technology Education 1800 Industrial Arts 1801 General Shop 1802 Technical Education 7030 Electrical Technology 7031 Industrial Electricity 7035 General Electrical Occupations 7131 Electronics Technology	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.
7467 AC Energy, Power, and Engineered Systems III	Hold a teaching certification in one of the following areas: 2500 Physics 2710 Chemistry/Physics 1900 Mathematics 1905 Math Through Algebra I 0608 Technology Education 1800 Industrial Arts 1801 General Shop 1802 Technical Education 7030 Electrical Technology 7031 Industrial Electricity 7035 General Electrical Occupations 7131 Electronics Technology	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.

WVBE ADVANCED CREDENTIAL AND CODE AWARDED FOR CTE CONCENTRATIONS	CERTIFICATE REQUIREMENTS	PROFESSIONAL DEVELOPMENT/ COURSE WORK
7468 AC Energy, Power, and Engineered Systems IV	Hold a teaching certification in one of the following areas: 2500 Physics 2710 Chemistry/Physics 1900 Mathematics 1905 Math Through Algebra I 0608 Technology Education 1800 Industrial Arts 1801 General Shop 1802 Technical Education 7030 Electrical Technology 7031 Industrial Electricity 7035 General Electrical Occupations 7131 Electronics Technology	Complete professional development and/or WVDE-approved coursework related to Career and Technical Education.

TABLE 5: Adult Part Time Permit

WVBE ADULT PART TIME PERMIT	PART TIME ADULT PROGRAM	CERTIFICATE REQUIREMENTS	INDUSTRY CREDENTIALING ORGANIZATION/S
7042 Nursing Aide	HE 0761 Certified Nursing Assistant	Valid West Virginia License as Registered Nurse (RN) AND 1 year, (2000 clock hours) of long term care	West Virginia Board of Examiners for Registered Professional Nurses
7603 Phlebotomist	HE 0773 Phlebotomy Technician	Complete two years (4,000 clock hours) of wage earning experience as a certified phlebotomy technician, as a registered supportive personnel who works under the direct supervision of a medical lab assistant or director. AND Valid Certified Phlebotomy certification	American Society of Phlebotomy (ASPT) National Health Career Association or American Medical Technologist Association (AMTA)
7611 EKG Technician	HE 0810 Electrocardiograph Technician	Complete two years (4,000 clock hours) of wage earning experience as a certified as a Electrocardiograph Technician, as a registered supportive personnel who works who works in a	Hold a valid certificate or license from the appropriate state and/or national organization or agency, when applicable

WVBE ADULT PART TIME PERMIT	PART TIME ADULT PROGRAM	CERTIFICATE REQUIREMENTS	INDUSTRY CREDENCIALING ORGANIZATION/S
		clinic, hospital, emergency services or other health care facility.	
7960 Commercial Driver's License	TR 2170 Truck Driver Training	Commercial Driver's License (CDL) License	West Virginia Department of Transportation, Division of Motor Vehicles
7440 Business Prep	BM1400 Business Prep Any Business Education course listed in the adult programs of study	None	Wage-Earning Experience. – Complete three years (6,000 clock hours) of successful wage-earning experience in the occupation for which licensure is requested
7953 Cabling Technology	MA 2165 Cabling Technology	C-Tech Certification	C-Tech

7047 Emergency Medical Technician	EMT (Public Service Training)	License. – Hold a current WV EMT, WV Paramedic Certification, or National Registry EMT or Paramedic license; AND Complete four years of recent volunteer or paid work experience, which may include emergency room or emergency medical care, beyond the training period in the occupation to be taught; AND Score a minimum of 85% on WVDE approved examination; AND Hold current CPR instructor certification; And Complete an approved instructor course; AND Successfully complete the EMT field-based experience.	WV Department of Health and Human Resources, Bureau of Public Health, Office of Emergency Medical Services or American Red Cross or American Heart Association or American Safety & Health Institute or Emergency Care & Safety Institute or National Safety Council
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7087 Fire Service Training	Fire Service Training (Public Service Training)	Complete four years of volunteer or paid work experience in the field of fire service; AND Complete an approved instructor training program and successfully complete the field-based experience in fire instructor training and provide verification from the RESA Public Service Coordinator of completion of required training in firefighting, hazardous materials, CPR and First Aid; AND Score a minimum of 85% on a WVDE approved examination.	American Red Cross or American Heart Association or American Safety & Health Institute or Emergency Care & Safety Institute or National Safety Council WV Fire Commission
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