



Sector	Entry Level Career Field (CTE Board Standard)	Aligned to GWB Priority Sectors?	Expected Program Outcomes (Industry-Recognized Credentials or Post-Secondary Credits)	Additional Requirements and Notes
Automotive Technology	Automotive Body Repair Technician	No	<ul style="list-style-type: none"> I-Car Level II I-Car Level I 	<ul style="list-style-type: none"> Program must be NATEF certified Expanded work-based learning component <i>Note:</i> CDX is a recommended curriculum although the actual choice of curriculum is a district decision with business/NATEF input.
	Automotive Service Technician	No	ASE Auto Maintenance and Light Repair Certification Test (G-1)	
	Lube Technician	No	Program completion (no credential)	
	Porter (Sales/Service)	No	Program completion (no credential)	
	Shipping and Receiving Clerk	No	Program completion (no credential)	
Business Management, Administration, & Finance	Accounting Clerk, Entry-Level Banking	Yes (supports all GWB priority sectors)	Rhode Island Financial Scholars Program (EVERFI) <i>+ at least one of the following:</i> <ul style="list-style-type: none"> NOCTI Certification ASK Certification NAFTrack Certification <i>and + at least one of the following:</i> <ul style="list-style-type: none"> QuickBooks certification National Retail Federation (NRF) Customer Service Certification 	<ul style="list-style-type: none"> Three consecutive years of business coursework (recommended: Management, Accounting, Finance, Digital Marketing) Business industry work-based learning experience and/or related mentor program
Construction Technology	Junior Carpenter Helper	Yes (Construction)	NCCER Carpentry Level 1 and Level 2	<ul style="list-style-type: none"> NCCER Curriculum Core OSHA 10 Construction Construction Technology work-based learning experience and mentor program



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Construction Technology (cont.)	Electrical Apprentice	Yes (Construction)	NCCER Electrical Level 1 and Level 2	<ul style="list-style-type: none"> • NCCER Curriculum Core • OSHA 10 Construction • Construction Technology work-based learning experience and mentor program • Note: program participation counts toward related apprenticeship hours (up to 144 hours)
	HVAC Apprentice	Yes (Construction)	NCCER HVAC Level 1 and Level 2	<ul style="list-style-type: none"> • NCCER Curriculum Core • OSHA 10 Construction • Construction Technology work-based learning experience and mentor program • Note: program participation counts toward related apprenticeship hours (up to 144 hours)
	Plumber apprentice	Yes (Construction)	NCCER Plumbing Level 1 and Level 2	<ul style="list-style-type: none"> • NCCER Curriculum Core • OSHA 10 Construction • Note: Employer will likely require a new hire to secure a physical exam prior to employment. • Note: program participation counts toward related apprenticeship hours (up to 144 hours)
	Welder – Entry-level	Yes (Construction)	NCCER Welding Level 1 and Level 2	<ul style="list-style-type: none"> • NCCER Curriculum Core • NCCER Introduction to the Maritime Industry • OSHA 10 Construction • Construction Technology work-based learning experience and mentor program



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	Sheet Metal Apprentice	Yes (Construction)	NCCER Sheet Metal Level 1 and Level 2	<ul style="list-style-type: none">• NCCER Curriculum Core• NCCER Introduction to the Maritime Industry• OSHA 10 Construction• Construction Technology work-based learning experience and mentor program



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Education, Training, and Human Services	Education (Education, Child Care, Teacher Assistant)	Yes	<p><i>At least one of the following:</i></p> <ul style="list-style-type: none"> • Approved Teacher Assistant Training program; <i>and/or,</i> • Passing score on the RI Parapro Exam 	<p><i>Minimum academic requirements:</i></p> <ul style="list-style-type: none"> • 4 courses in English • 4 courses in Math • 3 courses in Science • 3 courses in S. Studies • At least one course in both technology and the arts • At least a minimum of three consecutive years of coursework in Education Pathway (to include birth to 21 with embedded content in English Language Learners (ELL) and children with special needs) • Recommended Coursework in Psychology, Sociology, Ethical Issues, and Financial Literacy) <p><i>Safety requirements:</i></p> <ul style="list-style-type: none"> • First Aid / CPR & AED Training <p><i>Work requirements:</i></p> <ul style="list-style-type: none"> • Work-based experience (Placement in a K-12 educational setting should be with a certified and tenured teacher. Early Childhood placement should be in a center with Bright Stars affiliation) <p><i>Additional credentials (optional):</i></p> <ul style="list-style-type: none"> • Rhode Island Early Learning and Development Standards Certificate • Red Cross Babysitting & Child Care Certificate • OSHA 10



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Environmental and Life Sciences	Animal Science Veterinary Assistant, Lab Animal Caretaker	Yes (Bioscience)	<p><i>At least one of the following:</i></p> <ul style="list-style-type: none"> • National Occupational Competency Testing Institute (NOCTI): Small Animal Science and Technology • Canine and Feline CPR and First Aid Certification • Concurrent Enrollment in the College of Environmental and Life Science at URI Course – AVS 101 	<p><i>Minimum academic requirements:</i></p> <ul style="list-style-type: none"> • 3-4 consecutive years of Environmental & Life Sciences Coursework • 4 years of Math • 3 years of Science, including Biology • Recommended coursework in Chemistry, Anatomy, Physiology <p><i>Work requirements:</i></p> <ul style="list-style-type: none"> • Environmental & Life Sciences work-based learning experience (s) and/or related mentoring program • Career Readiness Skills Component, (such as FFA LifeKnowledge, SkillsUSA Career Essential Suite) • OSHA 10
	Aquaculture / Agricultural and Food Science Technician	Yes (Bioscience)	<p><i>At least one of the following:</i></p> <ul style="list-style-type: none"> • NOCTI - Agriculture, Food & Natural Resources • Project Lead the Way Biomedical Science Pathway • College-level courses in field of study (concurrent, dual enrollment, or EEP) 	<p><i>Minimum academic requirements:</i></p> <ul style="list-style-type: none"> • 3 consecutive years of Environmental & Life Sciences Aquaculture Coursework • 4 years of Math, including Algebra II (Recommended: Pre-Calculus and Statistics) • 3 years of Science, including Biology, Chemistry and Physical Science (Recommended: 4 years, including AP science) <p><i>Work requirements:</i></p> <ul style="list-style-type: none"> • Environmental & Life Sciences Work-Based Learning experience(s) and/or related mentoring program. • Career Readiness Skills Component (such as SkillsUSA Career Essentials Suite, Naviance, Junior Achievement) • Safety Training Component (recommended: OSHA 10)



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Environmental and Life Sciences (cont.)	Bioscience	Yes (Bioscience)	<p><i>At least one of the following:</i></p> <ul style="list-style-type: none"> • NOCTI - Health Science • 3 Project Lead the Way (PLTW) certificates in the Biomedical Science Pathway • Precision Exam in Health Science - Biotechnology • College-level courses in field of study (concurrent, dual enrollment, or EEP) 	<p><i>Minimum academic requirements:</i></p> <ul style="list-style-type: none"> • 3 consecutive years of environmental & life sciences coursework • 4 years of math, including Algebra II (Recommended: Pre-Calculus and Statistics) • 3 years of Science, including Biology, Chemistry and Physical Science (Recommended: 4 years, including AP science) <p><i>Work requirements:</i></p> <ul style="list-style-type: none"> • Environmental & Life Sciences Work-Based Learning experience(s) and/or related mentoring program • Career Readiness Skills Component (such as SkillsUSA Career Essentials Suite, Naviance, Junior Achievement) • OSHA 10
	Plant Science – Landscaper & Groundskeeper	Yes (Bioscience)	NOCTI Horticulture-Landscaping (or other related NOCTI assessment)	<p><i>Minimum academic requirements:</i></p> <ul style="list-style-type: none"> • 3-4 consecutive years of environmental & life sciences coursework • 4 years of math • 3-4 years of science <p><i>Work requirements:</i></p> <ul style="list-style-type: none"> • Environmental & Life Sciences Work-Based Learning experience(s) and/or related mentoring program • Career Readiness Skills Component (such as FFA LifeKnowledge, SkillsUSA Career Essentials Suite) • OSHA 10 Safe Workplace (recommended: Pesticide Safe Worker)

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Environmental and Life Sciences (cont.)	Process Technician (Chemical Manufacturing, Research & Development)	Yes (Bioscience)	<p><i>At least one of the following:</i></p> <ul style="list-style-type: none"> Project Lead the Way (PLTW) Biomedical Science Pathway Concurrent/Dual Enrollment with CCRI 	<p><i>Minimum academic requirements:</i></p> <ul style="list-style-type: none"> 3-4 consecutive years of environmental & life sciences coursework 3 years of science, including chemistry 4 years of math, including basic applied mathematics Recommended coursework: mechanical, plumbing and HVAC or engineering (suggested: NCCER HVAC & Plumbing Levels 1 & 2) Science, mechanical, or engineering work-based learning experience (s) and/or related mentoring program <p><i>Work requirements:</i></p> <ul style="list-style-type: none"> Career Readiness Skills Component (such as FFA LifeKnowledge, SkillsUSA Career Essentials Suite, Naviance, or Junior Achievement) OSHA 10
Graphic Communications Technology	Print Manufacturing – Pre-Production	Yes (Information Technology)	<p><i>At least one of the following:</i></p> <ul style="list-style-type: none"> Certificate (GAERF-PrintED, Adobe, Skillconnect, NOCTI, AutoDesk, specialized proprietary software) Diploma in graphics operations (Xerox), design or printing technology 	<ul style="list-style-type: none"> Study graphic communications, computers, commercial printing processes, math, lithography, and safety procedures. Students should be placed on a track to earn an associate’s degree in graphic arts and imaging technology or printing and prepress technology Optional: AP & Project Lead the Way computer science pathway
	Print Manufacturing – Production			
	Design & Web/Print E-Commerce			
	Audio/Video			
	Advertising/Marketing			



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Graphic Communications Technology (cont.)	Sales/Support staff		<ul style="list-style-type: none"> Certificate (GAERF-PrintED, Adobe, Skillconnect, NOCTI, AutoDesk, specialized proprietary software) Diploma in graphics operations (Xerox), design or printing technology 	
Health Careers / Medical Pathways	Certified Nursing Assistant (CNA)	Yes (Healthcare)	RI CNA license	<ul style="list-style-type: none"> 100 hours of practical training, 20 of which are offsite at an accredited care facility 16 hours of classroom instruction is prerequisite for beginning practical training
	Certified Patient Care Technician (CPCT), provisional license	Yes (Healthcare)	RI CPCT provisional license	<ul style="list-style-type: none"> Certification in CPR, AED, First Aid Certified, preferably through American Heart Association's Basic Life Support (BLS) for Health Care Providers (HCP) Complete full accredited Nursing Assistant Training Program and obtain RI state CNA Licensure (300 total hours) Complete a full Patient Care Technician accredited program and successfully take the related exam (online/written) Curriculum: National Health Career Association (NHA) CPCPT
	Community Health Worker	Yes (Healthcare)	Program completion (credential under development)	<ul style="list-style-type: none"> Note: this pathway is under development for RI, but these standards are adopted from Massachusetts.



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Health Careers / Medical Pathways (cont.)	Dental Hygienist	Yes (Healthcare)	RI Dental Hygiene license	<ul style="list-style-type: none"> Graduation from an accredited dental hygiene program Successful completion of the written National Board Dental Hygiene Examination Successful completion of a regional or state clinical board examination. <i>Note: The programs listed above are under development for state of RI; they do not currently exist.</i>
	Emergency Medical Technician	Yes (Healthcare)	RI EMT license	<ul style="list-style-type: none"> First Aid CPR/AED Bureau of Criminal Investigation report <i>Note: students should receive certificate of completion</i> <i>Note: This career field also appears under the Law, Public Safety, and Government sector below</i>
	Pharmacy Technician	Yes (Healthcare)	Certified Pharmacy Technician (CPhT)	<ul style="list-style-type: none"> Bureau of Criminal Investigation report
Hospitality	Culinary – Baker	Yes (Hospitality and Tourism)	<ul style="list-style-type: none"> American Culinary Federation (ACF) accreditation for culinary education ProStart National Certificate of Achievement (COA) ServSafe Food Safety Manager Certification ServSafe Allergen Training Certification 	<ul style="list-style-type: none"> Possible curriculum: National Restaurant Association
	Culinary – Prep Cook			
	Culinary – Line Cook			



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Hospitality (cont.)	Restaurant Operations	Yes (Hospitality and Tourism)	<ul style="list-style-type: none"> ProStart National Certificate of Achievement (COA) ServSafe Food Safety Manager Certification ServSafe Allergen Training Certification ServSafe Alcohol Training & Certification 	
	Hotel Operations	Yes (Hospitality and Tourism)	<ul style="list-style-type: none"> Certified Hospitality & Tourism Management Professional Certification (CHTMP) 	
	Hotel Operations – Laundry Attendant		<ul style="list-style-type: none"> Certified Guest Service Professional (CGSP) 	
	Hotel Operations – Room Attendant	Yes (Hospitality and Tourism)	<ul style="list-style-type: none"> Certified Hospitality & Tourism Management Professional Certification (CHTMP) Certified Guest Service Professional (CGSP) Certified Guestroom Attendant (CGA) 	
	Hotel Operations – Guest Room Service Agent	Yes (Hospitality and Tourism)	<ul style="list-style-type: none"> Certified Hospitality & Tourism Management Professional Certification (CHTMP) Certified Guest Service Professional (CGSP) Certified Front Desk Representative (CFDR) 	
	Tourism – Amusement and Recreation Attendant			
	Tourism – Tour Guide			
	Tourism – Travel Agent			

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Information Technology	Entry-level Network (Cisco-Certified Network Associate – CCNA)	Yes (Information Technology)	Cisco-Certified Network Associate (CCNA)	<ul style="list-style-type: none"> Note: program completion should put students on track for a bachelor's degree and/or associate's degree, and help students toward the related work experience that employers prefer
Information Technology	Information Technology	Yes (Information Technology)	High school transcript credit for pathway-related training	<ul style="list-style-type: none"> 12-18 months of work experience preferred Some postsecondary training in Computer Studies and General Information Processing preferred
Law, Public Safety, and Government	Law Enforcement	No	<ul style="list-style-type: none"> National Incident Management System Training (NIMS) NOCTI – Criminal Justice Roger Williams University Certificate of Completion 	<p><i>Credentials required:</i></p> <ul style="list-style-type: none"> First Aid/CPR OSHA 10 Note: to continue on to a career in law enforcement, employers require US citizenship, a minimum age of 21, and rigorous physical and personal qualifications
	Emergency Medical Technician	Yes	RI EMT license	<ul style="list-style-type: none"> EMT training program Bureau of Criminal Investigation report First Aid CPR/AED Certificate of Completion Note: This career field also appears under Health sector above
	Legal Services, Paralegal	No	NOCTI Legal Services	<ul style="list-style-type: none"> Potential course sequence: Roger Williams University 3-4 course sequence, including Introduction to Criminal Justice, Law & Society, and Forensics Science. Optional Courses: Sociology and/or Psychology. Associate's degree or certificate in paralegal studies preferred Strong computer and database management skills preferred
	Military	Yes (Defense)	Program completion (students should be on track for advanced standing)	<ul style="list-style-type: none"> Curriculum: JROTC



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Manufacturing	Entry-level Manufacturing and above	Yes (Manufacturing)	National Career Readiness Certificate (ACT NCRC)	<ul style="list-style-type: none"> National Career Readiness Certificate (ACT NCRC) 3 ACT WorkKeys assessments: Applied Mathematics, Locating Information, and Reading for Information. Student must achieve silver, gold or platinum score. Safety training.
	Entry-level Manufacturing and above (Machinists and Tool & Die Makers)	Yes (Manufacturing)	<ul style="list-style-type: none"> Manufacturing Standards Skills Council (MSSC) Certified Production Technician (CPT) program ACT NCRC 	<ul style="list-style-type: none"> Students must earn the first 4 MSSC certificates to receive the full CPT certification, but can earn a Certificate if they pass one or more assessments. To earn ACT NCRC, student must achieve at least a silver level score. Safety training. Curriculum: National Institute for Metalworking Skills (NIMS)
	Entry-level and above Production Manufacturing Specialist	Yes (Manufacturing)	<ul style="list-style-type: none"> Manufacturing Skills Institute (MSI) Manufacturing Technician 1 (MT1) certification. MSSC CPT ACT NCRC 	<ul style="list-style-type: none"> Students must earn the first 4 MSSC certificates to receive the full CPT certification, but can earn a Certificate if they pass one or more assessments. To earn ACT NCRC, student must achieve at least a silver level score. Safety training. Curriculum: NIMS
	Entry-level and above for any logistical function	Yes (Manufacturing)	<ul style="list-style-type: none"> Foundational-level MSSC Certified Logistics Associate (CLA) Certificate Mid-level technical MSSC Certified Logistics Technician (CLT) MSSC CPT ACT NCRC 	<ul style="list-style-type: none"> Students must earn the first four MSSC certificates to receive the full CPT certification, but can earn a Certificate if they pass one or more assessments. To earn ACT NCRC, student must achieve at least a silver level score. Safety training.



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Manufacturing (cont.)	Entry-level and above in metalworking industry or function	Yes (Manufacturing)	<ul style="list-style-type: none"> NIMS machining and metal-forming Machining Level I certification MSSC CPT ACT NCRC 	<ul style="list-style-type: none"> To earn ACT NCRC, student must achieve at least a silver level score. Safety training.
Marine Technology	Boat Building	Yes (Marine Trades)	Rhode Island Marine Trades Association (RIMTA) Certificate of Completion	<ul style="list-style-type: none"> Primary curriculum is American Boat and Yacht Council (ABYC) with integrated units from the NCCER Construction Technology. The 3-4 courses are: Marine Technology 1; Marine Technology 2; Marine Technology 3; and Marine Technology 4 (where applicable). OSHA 10 (Maritime, Construction, and/or General)
	Composites	Yes (Marine Trades)	<ul style="list-style-type: none"> American Composite Manufacturers Association (ACMA) Certification - Certified Composites Technician (CCT) RIMTA Certificate of Completion 	<ul style="list-style-type: none"> Primary curriculum is American Composite Manufacturers Association (ACMA). The three/four courses are: Marine Technology 1; Marine Technology 2; Marine Technology 3; and Marine Technology 4 (where applicable) Instructor must hold the American Composite Manufacturers Association (ACMA) Certification. OSHA10 (Maritime, Construction, and/or General)
	Systems	Yes (Marine Trades)	SkillsUSA Marine Service Technology Proficiency Assessment	<ul style="list-style-type: none"> Primary curriculum is American Boat and Yacht Council (ABYC). The three/four courses are: Marine Technology 1; Marine Technology 2; Marine Technology 3; and Marine Technology 4 (where applicable). OSHA 10



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Pre-Engineering Technology	Technician	Yes (Defense)	<p><i>At least one of following:</i></p> <ul style="list-style-type: none"> • National Occupational Competency Testing Institute (NOCTI) – Pre-Engineering • International Society of Certified Electronics Technicians (ISCET) – AC, DC, Semiconductor, & Digital • Electronic Technician Association – AC, DC, Analog, Digital, & Comprehensive • Project Lead the Way – Three consecutive Course Certificates (including Intro to Engineering Design, and Principles of Engineering) 	<ul style="list-style-type: none"> • 3 consecutive years of engineering technology coursework • 4 years of math (must include pre-calculus) • Chemistry and Physics • Safety training (OSHA 10 or equivalent)