

Career Pathways



Tri-County Regional Vocational Technical High School

Tri-County Regional Vocational Technical High School

Auto Collision Repair

Career Pathways

Skills & Competencies Tri-County Training	Tri-County Diploma or On-The-Job Training	Two-Year or Four-Year College Majors
Frame Inspection and Repair Repairing and Adjusting Outer Panels Metal Welding and Cutting Repairing Mechanical and Electrical Components Preparation and Body Painting	Collision Repair Technician Painting and Refinishing Technician Glass Installation Technician Automotive Reconditioner Automotive Detailer Automotive Recycler Body Shop Owner Insurance Appraiser / Estimator Service Manager Manufacturer Representative	Collision & Refinishing Technology Auto Body Technology Automotive Engineer Mechanical Engineer

Certification: Automotive Service Excellence (ASE) Certification
 General Industry OSHA 10-hour card

Tech Prep Agreement: Universal Technical Institute
 New England Institute of Technology

Tri-County Regional Vocational Technical High School

Automotive Technology

Career Pathways

Skills & Competencies Tri-County Training	Tri-County Diploma or On-The-Job Training	Two-Year or Four-Year College Majors
General Engine Diagnosis and Service General Brake System Diagnosis and Service General Electric System Diagnosis and Service Battery Diagnosis General Suspension and Steering System Diagnosis and Service Starting System Diagnosis and Service Computerized Controls Diagnosis and Service Fuel, Exhaust and Emissions Diagnosis and Service Transmission Service and Repair	Diesel Technician Motorcycle Repair Technician Manufacturer Technician Diagnostic Specialist Parts Department Specialist Service Writer Service Manager General Manager Manufacturer Representative	Automotive Technology Automotive Engineering Diesel Technology Mechanical Engineering

Certification: Automotive Service Excellence (ASE) Certification
 Automotive Youth Educational Systems (AYES) Certification
 General Industry OSHA 10-hour card

Tech Prep Agreement: Mass Bay Community College, University of Northwestern Ohio,
 Universal Technical Institute, New England Institute of Technology

Tri-County Regional Vocational Technical High School

Carpentry

Career Pathways

Skills & Competencies Tri-County Training	Tri-County Diploma or On-The-Job Training	Two-Year or Four-Year College Majors
Print Reading, Estimation and Measuring Set-up, Operate and Maintain Power Equipment Framing Floors, Walls, Ceilings and Roofs Interior and Exterior Trim and Wood Doors Fabricate Counters, Stair Work, Casework and Windows CAD Drawing Concrete Form Work and Pouring Concrete Finishing Roofing and Siding	Rough Carpenter Finish Carpenter Cabinet Maker Wood Products Installer Roofer Siding Installer Floor Installer and Refinisher Union Apprentice Cost Estimator Construction Foreman	Construction Technology Drafting Technology Civil Engineering Architectural Engineering Industrial Engineering

Certification: 10-Hour OSHA Construction Safety Course Certification

Tech Prep Agreement: New England Institute of Technology
 Wentworth Institute: Construction Materials and Methods
 Massachusetts Maritime Academy (requires Academic Prerequisites)

Tri-County Regional Vocational Technical High School

Computer Information Systems

Career Pathways

Skills & Competencies Tri-County Training	Tri-County Diploma or On-The-Job Training	Two-Year or Four-Year College Majors
Data Entry Basic Network Technology Network System Hardware & Software Operations Programming Concepts Utilization of Multimedia Tools Create HTML Documents Use and Support Computer Operating Systems Computer Security and Risk Issues Identify Network Design Concepts Troubleshoot and Maintain Network Performance Hardware Installation, Configuration and Interconnectivity Perform Preventative Maintenance Procedures Troubleshoot Hardware & Software Problems	Customer Support Technician Data Communications Technician Network Installation Technician PC Support Specialist Computer Assembly Technician Software Trainer Computer Repair Technician Computer Sales Representative Web Systems Administrator Computer Programmer Computer Engineer Webmaster	Webpage Multimedia Design Computer Programming Game Development Game Design Webmaster Software Engineer Computer Hardware Engineer Interactive Media and Computer Design Computer Information Systems Computer Science Vocational/Technical Instructor Database Administrator Network Engineer

Certification: A+ (PC Hardware & Software Repair), CCNA-Cisco Certified Network Associate, MOS- Microsoft Office Specialist Certification, OSHA – 10 Hour Safety Certification, Network + - Configure and Operate Networking Devices, IC³ – Internet & Computing Core Certification, CCENT-Cisco Certified Entry Networking Technician

Tech Prep Agreement: New England Institute of Technology, Bristol Community College, Bunker Hill Community College

Tri-County Regional Vocational Technical High School

Construction Craft Laborer

Career Pathways

Skills & Competencies Tri-County Training	Tri-County Diploma or On-The-Job Training	Two-Year or Four-Year College Majors
Read and Interpret Site & Building Prints Select and Use Appropriate Hand, Power and Pneumatic Tools Use Line and Grading Equipment Use and Maintain Ladders and Scaffolds Apply Masonry Skills Prepare, Level, Finish Vertical and Horizontal Concrete Placement. Apply Hoisting and Riggings Skills Apply Trenching and Excavation Skills Apply Pipelaying Skills and Techniques Prepare Demolition Sites Apply Shielded Metal Arc Welding Skills and Techniques	Construction Laborer General Construction Worker Asbestos Abatement Worker Lead Abatement Worker Asphalt Worker Nuclear Power Plant Worker	Building Construction Technology Business Administration Civil Engineering Mechanical Engineering Construction Management

Certification: American Welding Society, American Red Cross First Aid and CPR, OSHA 10- and 30-Hour Construction Outreach, American Crane Institute Hoisting & Rigging Certification, Microbial Remediation, D.O.T. Flagging Certification, Masonry Contractors Association of American, Forklift Trainer Certification-Rough Terrain, MARR Elevator Work Platform Certification.

Tri-County Regional Vocational Technical High School

Cosmetology

Career Pathways

Skills & Competencies Tri-County Training	Tri-County Diploma or On-The-Job Training	Two-Year or Four-Year College Majors
Customer Service Skills Marketing & Management Activities Proper Shampooing Procedures Blow Dry Styling Techniques Perform Hair / Scalp Treatment Perform Basic Make-Up Application Demonstrate Manicure and Pedicure Procedures Demonstrate Hair Shaping Techniques Perform Hair Coloring Procedures Perform Permanent Waving Procedures Perform Chemical Hair Relaxing Temporary Hair Removal / Waxing	Hairstylist Hair Colorist Nail Technician Esthetician Massage Therapist Salon Manager Salon Owner Theatrical Make-Up Artist Manufacturer's Representative Platform Artist	Fashion and Apparel Design Fashion Merchandizing Forensics Entrepreneurial Studies Business Management SPA Esthetician (600 hrs.) Massage Therapist Electrologist (1,000 hrs.) Electrolysis Technician Medical Esthetician (900 hrs.) Barbering

Certification: 1,000 hours needed for State Exam are approved by The Board of Registration of Cosmetology
 General Industry OSHA 10-hour card

Tri-County Regional Vocational Technical High School

Culinary Arts

Career Pathways

Skills & Competencies Tri-County Training	Tri-County Diploma or On-The-Job Training	Two-Year or Four-Year College Majors
Menu Planning, Ordering, Receiving and Storage Perform Dining Room Service Activities Perform Host or Hostess Activities Orientation to Hotel, Restaurant and Tourism Sales & Marketing Introduction to Banquet and Catering Services Cooking Methods and Food Preparation Preparing Soups, Sauces, Salads Orientation to Garde Manger, Hors d'oeuvres, and Appetizers Prepare Baked Goods Prepare Frostings and Cake Decorating	Prep Cook Line Cook Sous Chef Chef Cake Decorator Baker Wait Staff Maitre D' Hotel Restaurant Owner Bakery Owner Caterer Meat Cutter Food Service Manager Pastry Chef	Culinary Arts Baking and Pastry Arts Foods & Beverage Management Hotel & Restaurant Management Culinary Nutrition Nutrition Sciences Hotel and Tourist Management Food Science

Certification: Certified Culinary Graduate, Pro-Start Certification, Serve Safe Certification, MA Food Handlers Certification
 General Industry OSHA 10-hour card

Tech Prep Agreement: Johnson & Wales University, Bristol Community College, Newbury College

Tri-County Regional Vocational Technical High School

Dental Assisting Career Pathways

Skills & Competencies Tri-County Training	Tri-County Diploma or On-The-Job Training	Two-Year or Four-Year College Majors
Sterilize instruments Set up instrument trays Take medical/dental histories Take vital signs of patients Provide dental care instructions to patients Make preliminary impressions of teeth Take opposing model-impressions and bite registrations Clean and polish removable appliances Help dentist manage medical and dental emergencies Provide pre- and post-operative instructions as prescribed by dentist Assist at chair side for general dentistry and specialty dentistry Coronal polish teeth Make bleaching trays Place dental sealants Perform fluoride treatments Take dental x-rays (digital & conventional) Take a tooth print impression	Dental Assistant Dental Laboratory Assistant Medical Records/Health Information Technician Dental Receptionist Insurance Biller	Dental Hygienist Dental Laboratory Technician Health Information/Medical Records Administrator Radiological Technical Regional Office Manager Dental Assisting Teacher Dental Consultant Dental Management Careers Dental Sales Representative

Certification: Dental Assisting National Board Certifications in Radiation Health & Safety and Infection Control, CPR: Health Care Provider Status
 General Industry OSHA 10-hour card

Tech Prep Agreement: Porter & Chester Institute (pending)

Tri-County Regional Vocational Technical High School

Early Childhood Education

Career Pathways

Skills & Competencies Tri-County Training	Tri-County Diploma or On-The-Job Training	Two-Year or Four-Year College Majors
Create Childhood Self Concept and Emotional Development Activities Apply Standard Healthcare Activities Design and Maintain a Positive Learning Environment Develop Activities that Foster Optimal Physical Social and Cognitive Development Create Activities that Develop Communication Skills Develop Activities that Encourage Student's Natural Creativity Provide Appropriate Behavioral and Social Guidance to Young Children Determine Methods to Encourage Family Involvement in the Learning Process Learn Methods of Assessing Student Achievement	Teacher Assistant Nanny Certified Pre-School Teacher Full Day Child Care Provider Recreational Aide Family Day Care Provider	Elementary Education Early Childhood Education Special Education Speech Pathology Psychology Sociology Human Services School Psychologist Social Work Occupational Therapy Education (any/all grade levels) Guidance Counselor Criminal Justice

Certification: MA Dept. of Early Education and Care, First Aid/CPR
 General Industry OSHA 10-hour card

Tech Prep Agreement: MassBay Community College, Community College of Rhode Island,
 Fisher College

Tri-County Regional Vocational Technical High School

Electrical

Career Pathways

Skills & Competencies Tri-County Training	Tri-County Diploma or On-The-Job Training	Two-Year or Four-Year College Majors
Print Reading Basic Concepts of Electrical Theory Use of Electrical Test Equipment Electrical Code Install Electrical Boxes and Fittings Install Conductors Apply Concepts of Commercial, Industrial and Residential Wiring Demonstrate Methods of Overcurrent Protection Identify Principals of Grounding Install and Maintain Lighting and Luminaries Install Security Systems and Fire Alarm Systems Photo Voltaic Motor Controls	Apprentice Electrician Cable TV Technician Fire Alarm Technician Telecommunications Technician Security Systems Technician	Electrical Engineering Technology Electrical Engineer Telecommunications Engineer Electronics Engineer Business

Apprenticeship Pathway approved by Board of Electricians & Massachusetts Electrical Contractors

Tech Prep Agreement: New England Institute of Technology, Wentworth Institute: Circuit Analysis, Massachusetts Maritime Academy (requires Academic Prerequisites)

Certification: Shop and Related Hours are approved by The Massachusetts State Board of Electrical Examiners, 10-Hour OSHA Construction Safety Course Certification

Tri-County Regional Vocational Technical High School

Engineering Technology

Career Pathways

Skills & Competencies Tri-County Training	Tri-County Diploma or On-The-Job Training	Two-Year or Four-Year College Majors
Demonstrate and Apply the Design Process Develop Problem Solving, Diagnostic and Troubleshooting Skills Calibrate & Use Electronic Devices and Gauges to Solve Problems Define and Describe the Types of Engineering Document and Communicate Engineering Concepts and Systems Explain the Principals of Design Utilize Computer Aided Drafting Understand Circuitual & Electrical Current Identify Mechanical Components and Understand the Manufacturing Process Understand, Program and use CNC Machine Develop and Program a Robot Develop and Plan Methods of Production Understand and Design Simple Aeronautical Systems Understand and Design Basic Architectural Structures Research new Technologies	Civil Engineering Technician Surveying Technician Electrical Engineering Technician Electronic Engineering Technician Electromechanical Engineering Technician Environmental Engineering Technician Industrial Engineering Technician Mechanical Engineering Technician Architecture Technician Manufacturing Engineering Technician	Acoustical Engineer Aerospace Engineer Agricultural Engineer Biomedical Engineer Chemical Engineer Civil Engineer Computer Engineer Electrical Engineer Electronics Engineer Environmental Engineer Industrial Engineer Marine Engineer Nuclear Engineer Petroleum Engineer Mechanical Engineer Architect Manufacturing Engineer

Certification: Project Lead The Way, General Industry OSHA 10-hour card

Tech Prep Agreements: Massachusetts Maritime Academy (requires Academic Prerequisites)

Tri-County Regional Vocational Technical High School

Facilities Management

Career Pathways

Skills & Competencies Tri-County Training	Tri-County Diploma or On-The-Job Training	Two-Year or Four-Year College Majors
Print Reading Carpentry Framework and Repair Plumbing and Pipe Fitting Basic Electrical Wiring HVAC Troubleshooting and Preventative Maintenance Welding and Metal Fabrication Painting Landscaping Maintenance	Painter Landscaper Facilities Operations Technician Construction Foreman/Manager Facilities Manager	Facilities and Environmental Engineering Building Construction Technology Electrical Technology Plumbing Technology Manufacturing Engineering Technology Mechanical Engineer Industrial Engineer Electrical Engineer Welding Technology

Certification: American Welding Society-D1.1 Welding Certification
 10-Hour OSHA Construction Safety Course Certification

Tech Prep Agreements: Massachusetts Maritime Academy (requires Academic Prerequisites)

Tri-County Regional Vocational Technical High School

Graphic Communications

Career Pathways

Skills & Competencies Tri-County Training	Tri-County Diploma or On-The-Job Training	Two-Year or Four-Year College Majors
Pre-Production and Layout Demonstrate Effective Press Practices Bindery and Publishing Distribution Scanning Applying Photographic Principles Utilization of Desktop Publishing Software Digital Imaging and Web Animation	Press Operator Plate Maker Screen Printer Bindery Technician Electronic Pre-Press Technician Desktop Publisher Customer Service Representative Quality Assurance Technician Proofreader Printing Equipment Repair Technician	Graphic Design Film / Video Illustration Photography Cinematography Audio and Media Technology Digital Media Production Interactive Media Design Game Developer Printmaker Interior Design Web Design Print Media Printing Management Printing Technology Print Production

Certifications: General Industry - OSHA 10-hour card

Tech Prep Agreements: Center for Digital Imaging Arts at Boston University, Bristol Community College

Tri-County Regional Vocational Technical High School Heating, Ventilation, Air-Conditioning and Refrigeration Career Pathways

Skills & Competencies Tri-County Training	Tri-County Diploma or On-The-Job Training	Two-Year or Four-Year College Majors
Print Reading Electrical Controls and Systems Piping, Fittings and Materials Refrigeration Tools and Testing Instruments Installation, Wiring and Service Refrigeration Cycle Concepts of Air-Conditioning Electrical Controls and Systems Heat Pump and Electric Heating Oil and Gas Heat Efficiency, Installation and Service	HVAC/R Installer HVAC/R Mechanic Heating and Cooling Technician Oil Burner Technician Gas Burner Technician Control Wiring Specialist Mechanical Drafter / Design / AutoCAD Sheet Metal Technician Refrigeration Technician	Heating, Ventilation and Air-Conditioning Technology Industrial Engineering Technology Mechanical Engineering Civil Engineering Electrical Engineering Marine Engineering Facility Engineer

Certification: 10-Hour OSHA Construction Safety Course Certification
 Eligible for EPA Section 608 Technician Certification Test

Tech Prep Agreements: Massasoit Community College
 Massachusetts Maritime Academy (requires Academic Prerequisites)
 New England Institute of Technology

Tri-County Regional Vocational Technical High School

Medical Careers

Career Pathways

Skills & Competencies Tri-County Training	Tri-County Diploma or On-The-Job Training	Two-Year or Four-Year College Majors
Health Care Office Management Administering Comfort Measures Assisting with Nutrition and Hydration Understanding Emergency Procedures Demonstrating a Knowledge of Basic Laboratory Skills Knowledge of Health Related Specialties Completing Certification Processes, ie: CPR, First Aid, Certified Nursing Assistant Medical Terminology Learning and Application of all CNA Skills in Hospital and Long Term Care Setting Growth and Development Knowledge and Application in Daycare Facility Alzheimer's Care and Clinical Application	Certified Nursing Assistant Certified Home Health Aide EKG Technician Medical Office Assistant Occupational Therapy Assistant Pharmacy Assistant	Registered Nurse Licensed Practical Nurse (1 year program) Occupational Therapy Physical Therapy Pharmacy Lab Technician Operating Room Technician Radiology Radiological Technician Respiratory Technician Exercise Science Sports Medicine Forensics Paramedic (Certificate Program) Therapeutic Massage Physical Therapy Assistant Psychology Physician Assistant Surgical Technology

Certification: Massachusetts Department of Public Health Certified Nursing Assistant (CNA)
 Healthcare Provider Basic Life Support CPR/AED/First Aid Training,
 American Heart Association
 Pharmacy Technician Certification
 General Industry OSHA 10-hour card

Tri-County Regional Vocational Technical High School

Metal Fabrication

Career Pathways

Skills & Competencies Tri-County Training	Tri-County Diploma or On-The-Job Training	Two-Year or Four-Year College Majors
Welders Structural Iron Worker Sheet Metal Worker Sheet Metal Assembler Helper General Industrial Worker	Welding Technician Sales Person Machine Operator Pipe Fitter Boilermaker	Welding Educator Materials Engineer Welding Engineer Business Owner Underwater Welder Metallurgist Researcher Welding Inspector

Certifications: American Welding Society (AWS)
Construction Industry OSHA 10-hour card

Tri-County Regional Vocational Technical High School

Plumbing and Hydronic Heating

Career Pathways

Skills & Competencies Tri-County Training	Tri-County Diploma or On-The-Job Training	Two-Year or Four-Year College Majors
Print Reading Knowledge of Steel Pipe, Copper Pipe, Cast Iron Pipe and Plastic Pipe Names, Classifications and Sizing of Fittings Principles of Water Supply Drainage Waste and Vent/Piping Servicing of the Plumbing System Fuel Gas Systems	Apprentice Plumber Apprentice Pipefitter Licensed Plumber Licensed Pipefitter Sprinkler Fitter Water Filtration Technician Heating Contractor Gas Service Technician Home Inspector Irrigation System Technician Draftsperson Plumbing Contractor	Plumbing Technology Civil Engineer Mechanical Engineer Construction Technology Facilities and Environmental Engineering

Certification: Shop and Related Hours are approved by Massachusetts Board of State Examiners of Plumbers and Gas Fitters (requires state license)
 Apprenticeship Agreement JATC Plumbers & Pipefitters Local 4
 10-Hour OSHA Construction Safety Course Certification

Tech Prep Agreements: New England Institute of Technology
 Massachusetts Maritime Academy (requires Academic Prerequisites)