

HENRICO COUNTY PUBLIC SCHOOLS
CTE
CAREER & TECHNICAL EDUCATION
WORKFORCE & CAREER DEVELOPMENT

Discover Your Talents, Build Your Independence, Launch Your Future!

Henrico Workforce and Career Development

CAREER GUIDE

HENRICOCTE.COM

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Welcome Letter

Career and Technical Education (CTE) provides students with the foundational knowledge to jumpstart their careers, while at the same time preparing them for continuing education. Students who complete a CTE program graduate with more than just a diploma. Many graduate with not only a skill set that prepares them for the world of work, but also a nationally recognized certification or state license. CTE courses provide students with the opportunity to develop industry contacts to build resumes that can be used for future employment programs in apprenticeships, two- and four-year college, and private career schools. The programs we offer in CTE help strengthen academic achievement, enhance leadership and employable skills, and provide hands-on applications of academic concepts. Many offer the opportunity to gain college credit while in high school. In short, taking a Career and Technical Education program while in high school is a decision that “pays” as you prepare for the future.

In the department of Workforce and Career Development, our goal is to make sure we are offering programs that meet the needs of our students and the community. Business partnerships are key to the success of our programs. As you look through this career guide, you will see many different courses. We work closely with our business partners to ensure that the courses and certifications we offer will prepare you to be successful in your future career. Each course you take will bring you one step closer to ensuring you will graduate from Henrico County Public Schools **Enrolled, Enlisted, AND/OR Employed!**

Mac Beaton
Director of Department of Workforce & Career Development

What is Career & Technical Education

Henrico Career & Technical Education (CTE) offers middle and high school students a hands-on, skills-based education that focuses on applying academics to real-world problems. Our courses spotlight in-demand occupations across Virginia's 14 Career Clusters (see pp. 9-10) covering business to energy, marketing to engineering, heath science to manufacturing, cooking to computer sciences and more! Our CTE programs not only prepare students through high-quality instruction and developing workplace readiness skills, but provide opportunities to earn industry certifications, dual-enrollment, and work-based learning experiences.

3E Enrolled Enlisted and/or Employed

HENRICO COUNTY PUBLIC SCHOOLS CTE CAREER & TECHNICAL EDUCATION WORKFORCE & CAREER DEVELOPMENT

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Discover Your Future with Henrico CTE Ready to forge your path toward a fulfilling career? Henrico Career and Technical Education (CTE) offers over 150 elective programs for middle and high school students, providing rewarding careers. Our programs empower students to explore a diverse range of possible careers



ACE ADVANCED CAREER EDUCATION CENTERS HERMITAGE · HIGHLAND SPRINGS · VIRGINIA RANDOLPH

In Henrico, we believe all students should be enrolled, enlisted, and/or employed after their high school graduation. Whether you decide if post-secondary education, the military, or going straight into the workforce is right for you, CTE courses prepare students with life ready and instructional skills to ensure a smooth transition to the next stop on your career path.

In middle school, students can explore careers that match to their interests and skills through career exploration classes, clubs, and career interest assessments. In high school, students can take CTE courses or apply to our three Advanced Career Education (ACE) Centers. These specialty centers offer over 40 concentrated CTE programs for junior and senior students that offer work-based experiences, college credits, industry certifications, and state licenses. The ACE Centers have early registration in the 8th grade, and then again in the 10th grade to fill any remaining open seats.

PLAN YOUR PATH

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Career & Technical Education

By The Numbers



95% of CTE students graduate high school, compared with 85% for non-CTE students.

Employees are 2x as likely to recieve a raise or promotion within 6 months of earning a CTE Certification.



96% of employers who have heard about CTE have a favorable view of CTE appli-cants

77% of high school students today participate in CTE. (earned at least one credit)

Earning a CTE Associates Degree increases earning potential by 45%.



91% of parents of CTE students say their student is better prepared for their future career.

80% of parents of CTE students say their student has opportunities for internships, compared to 30% of parents of non-CTE students.



91% of high school graduates who earned 2-3 CTE credits enrolled in college.

Source-Applied Educational Systems

In-Demand Careers

Imagine a career that's high-paying, in-demand, and offers strong long-term growth. That's exactly what Henrico Career and Technical Education (CTE) programs are designed to deliver! Our comprehensive CTE offerings start in middle school, continue through high school, and extend to their Advanced Career Education (ACE) Centers, all geared toward helping students earn valuable certifications and launch fulfilling careers with competitive salaries.

CTE programs are vital because they directly address the specialized skill needs of today's workforce. By emphasizing practical, hands-on learning and fostering direct industry connections, CTE creates a clear pathway from the classroom straight into meaningful employment.

CERTIFICATION: In demand jobs that require a Certification.	
Wind Turbine Technician Wind turbine service technicians maintain and repair wind turbines.	10-Year Job Growth ..... **45%** 10-Year Job Openings .....**18,000** Median Salary **$61,770**
Broadcast, Sound, and Video Technicians Broadcast, sound, and video technicians set up, operate, and maintain the electrical equipment for media programs.	10-Year Job Growth ..... **5%** 10-Year Job Openings .....**71,000** Median Salary **$51,640**
Heating, Air Conditioning, and Refrigeration Mechanics and Installers Heating, air conditioning, and refrigeration mechanics and installers work on heating, ventilation, cooling, and refrigeration systems.	10-Year Job Growth ..... **6%** 10-Year Job Openings ..... **377,000** Median Salary **$57,300**
Medical Assistant Medical assistants complete administrative and clinical tasks, such as scheduling appointments and taking patients' vital signs.	10-Year Job Growth ..... **6%** 10-Year Job Openings ..... **377,000** Median Salary **$57,300**
Massage Therapist Massage therapists treat clients by applying pressure to manipulate the body's soft tissues and joints.	10-Year Job Growth ..... **18%** 10-Year Job Openings ..... **220,000** Median Salary **$55,310**
Electrician Electricians install, maintain, and repair electrical power, communications, lighting, and control systems.	10-Year Job Growth ..... **11%** 10-Year Job Openings ..... **779,800** Median Salary **$61,590**

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ASSOCIATES DEGREE: In demand jobs that require an Associates Degree.	
Web Developer Web developers create and maintain websites. Digital designers develop, create, and test website or interface layout, functions, and navigation for usability.	10-Year Job Growth ..... **17%** 10-Year Job Openings ..... **83,000** Median Salary **$84,960**
Veterinary Technician Veterinary technologists and technicians do medical tests that help diagnose animals' injuries and illnesses.	10-Year Job Growth ..... **21%** 10-Year Job Openings .....**148,000** Median Salary **$43,740**
Paralegal and Legal Assistant Paralegals and legal assistants support lawyers by performing a variety of tasks, such as maintaining and organizing files, conducting legal research, and drafting documents.	10-Year Job Growth ..... **4%** 10-Year Job Openings .....**380,000** Median Salary **$60,970**
Network Technician Network and computer systems administrators install, configure, and maintain organizations' computer networks and systems.	10-Year Job Growth ..... **7%** 10-Year Job Openings .....**133,000** Median Salary **$71,530**
BACHELOR'S DEGREE: In demand jobs that require a Bachelors Degree.	
Cybersecurity Analysts Information security analysts plan and carry out security measures to protect an organization's computer networks and systems.	10-Year Job Growth ..... **33%** 10-Year Job Openings .....**180,700** Median Salary **$120,360**
Registered Nurse Registered nurses (RNs) provide and coordinate patient care and educate patients and the public about various health conditions.	10-Year Job Growth ..... **6%** 10-Year Job Openings .....**1,931,000** Median Salary **$96,070**
Software Developer Software developers design computer applications or programs. Software quality assurance analysts and testers identify problems with applications or programs and report defects.	10-Year Job Growth ..... **26%** 10-Year Job Openings .....**1,363,000** Median Salary **$132,270**
Data Scientist Data scientists use analytical tools and techniques to extract meaningful insights from data.	10-Year Job Growth ..... **35%** 10-Year Job Openings .....**177,000** Median Salary **$108,020**
Mental Health Counselor Mental health counselors advise people on a range of issues, such as those relating to alcoholism, addictions, or depression.	10-Year Job Growth ..... **18%** 10-Year Job Openings .....**420,000** Median Salary **$53,710**

Source-U.S. Bureau of Labor Statistics, 2024

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HENRICO CAREER & TECHNICAL EDUCATION

CAREER Clusters

A Career Cluster helps students explore careers and plan their education. Each cluster contains career pathways with similar skills needed for various jobs and further learning. Based on skill sets taught, all CTE courses align with one or more of the nationally recognized career clusters.

CONNECTING & SUPPORTING SUCCESS

DIGITAL TECHNOLOGY

CARING FOR COMMUNITIES

EDUCATION

HEALTHCARE & HUMAN SERVICES

PUBLIC SERVICE & SAFETY

BUILDING & MOVING

ADVANCED MANUFACTURING

CONSTRUCTION

SUPPLY CHAIN & TRANSPORTATION

MANAGEMENT & ENTREPRENEURSHIP

CREATING & EXPERIENCING

ARTS, ENTERTAINMENT, & DESIGN

HOSPITALITY, EVENTS, & TOURISM

MARKETING & SALES

CULTIVATING RESOURCES

AGRICULTURE

ENERGY & NATURAL RESOURCES

INVESTING IN THE FUTURE

FINANCIAL SERVICES

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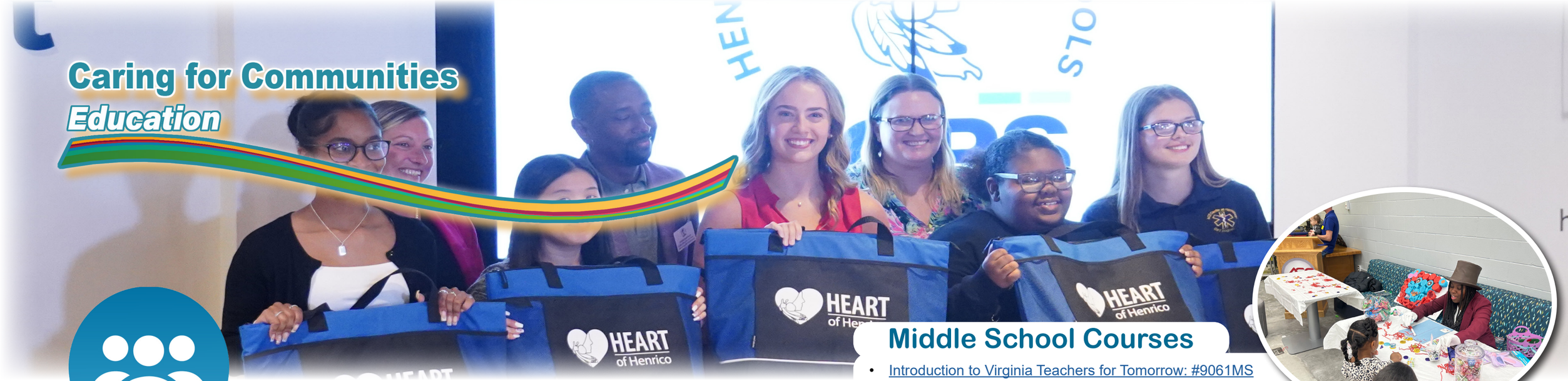
Caring for Communities

Education



What Is It?

The **Education Career Sub-Cluster** empowers you to leverage your ability to motivate and your passion for people, delivering education and training to individuals of all ages and across a wide range of industries. This dynamic field offers diverse career paths, including classroom teaching, college leadership, and community-focused roles like social work.



Are you interested in a career in the Education cluster? Talk to your school counselor or teachers about what classes to take and visit HenricoCTE.com for more information.

Do you like to . . .

- Help people learn new things?
- Work with children?
- Show empathy and compassion to others?
- Use your creativity?
- Communicate and motivate others?

Sample Careers

- Superintendent, Principal or Administrator
- Teacher or Instructor
- Preschool or Kindergarten Teacher
- Clinical, Developmental or Social Psychologist
- Social Worker
- Counselor
- Teacher Assistant
- Parent Educator
- Child Care Worker
- Coach
- Recreation Worker
- Sign Language Interpreter

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Middle School Courses

- Introduction to Virginia Teachers for Tomorrow: #9061MS
- Teen Living 6 (FACS Exploratory I): #8206
- Teen Living 7 (FACS Exploratory II): #8263
- Teen Living 8 (FACS Exploritory III): #8245
- Independent Living: #8219MS

High School Courses

- Early Childhood Education and Services I & II: #8285, #8286 (ACE)
- Teacher Apprenticeship I & II: #9062A, #9072A (ACE)
- Child Development and Parenting: #8232
- Introduction to Virginia Teachers for Tomorrow: #9061
- Virginia Teachers for Tomorrow I & II: #9062, #9072
- Life Planning: #8227

In-Demand Careers

Education Needed	Occupation	Median Salary	Job Growth Over next 10 years	Job Openings Projected over next 10 years
High School Diploma + Certification	Teacher Assistants	$35,240 per year	-1% (Decline)	-21,100
Associates Degree	Preschool Teachers	$37,120 per year	4% (As fast as average)	22,900
Bachelor's Degree or more	Elementary, Middle, and High School Principals	$104,070 per year	-2% (Decline)	-5,100
	High School Teachers	$64,580 per year	-2% (Decline)	-17,800
	School and Career Counselors	$65,140 per year	4% (As fast as average)	13,300
	Psychologists	$94,310 per year	6% (Faster than average)	11,800

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Source-U.S. Bureau of Labor Statistics, 2026



Caring for Communities

Healthcare & Human Services

What Is It?

Do you want to make a tangible difference in people's lives? The **Healthcare & Human Services Career Sub-Cluster** is focused on fostering whole health for individuals and communities alike. This expansive sector includes everything from specialized technical, mental, and therapeutic services to essential personal care, all underpinned by advancements in medical and social sciences. By actively addressing the social determinants of health and utilizing health data and science, this cluster works to significantly boost the overall health and resilience of individuals, families, and entire communities.



Are you interested in a career in the Healthcare & Human Services? Talk to your school counselor or teachers about what classes to take and visit HenricoCTE.com for more information.

Do you like to . . .

- Help others stay healthy?
- Work in a fast paced, often pressure-filled environment?
- Show empathy and compassion to others?
- Pay attention to detail?
- Use your math and science skills proficiently?

Sample Careers

- Doctor
- Nurse
- Emergency Medical Technician
- Genetic Counselor
- Immunologist
- Forensic Scientist
- Cancer Researcher
- Patent Researcher
- Bioinformatics
- Gene Therapist
- Technical Writers
- Microbiologist
- Science Teacher
- Barber
- Cosmetologist

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High School Courses

- NEW Dental Assisting: #8328, #8329 (ACE) Honors.
- Emergency Medical Technician: #8333, #8334 (ACE) Honors
- Senior Home Mental Health Assistance #8364 (ACE) Honors
- NEW Medical Assistant: #8345, #8346 (ACE) Honors
- Nurse Aide: #8360, #8362 (ACE) Honors
- Pharmacy Technician: #8305, #8306 (ACE) Honors
- Practical Nursing I & II & III: #8357, #8358, #8359 (ACE) Honors
- Physical/Occupational Therapy: #8365 (ACE) Honors
- Sports Medicine: #7660, #7662 (ACE) Honors
- NEW Sterile Processing: #8367, #8391 (ACE) Honors.
- NEW Surgical Technology: #8351, #8352 (ACE) Honors.
- Vet Science I & II: #8088, #8089 (ACE) Honors
- Introduction to Health and Medical Sciences: #8302XA
- Medical Terminology: #8384
- Barbering I & II & III: #8740, #8741, #8742 (ACE) Honors
- Cosmetology I & II & III: #8527, #8528, #8529 (ACE) Honors
- Nutrition and Wellness: #8229, #8228
- Relationships (Family Relations): #8225, #8223

In-Demand Careers

Education Needed	Occupation	Median Salary	Job Growth Over next 10 years	Job Openings Projected over next 10 years
High School Diploma + Certification	Nursing Assistants and Orderlies	$39,430 per year	2% (Slower than average)	34,400
	Barbers, Hairstylists, and Cosmetologists	$35,420 per year	5% (Faster than average)	35,300
	Licensed Practical Nurses	$62,340 per year	3% (As fast as average)	17,100
	Pharmacy Technicians	$43,460 per year	6% (Faster than average)	31,500
	EMT's and Paramedics	$46,350 per year	5% (Faster than average)	14,300
Associates Degree	Registered Nurses	$93,600 per year	5% (Faster than average)	166,100
	Respiratory Therapists	$80,450 per year	12% (Much faster than average)	16,800
Bachelor's Degree or more	Physical Therapists	$101,020 per year	11% (Much faster than average)	29,300
	Occupational Therapists	$98,340 per year	14% (Much faster than average)	22,100

Source-U.S. Bureau of Labor Statistics, 2026

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Caring for Communities

Public Service & Safety

What Is It?

Do you want to play a direct role in protecting and serving your community? The Public Service & Safety Career Sub-Cluster offers diverse opportunities in local, state, and federal government; legal and justice systems; security; and military operations. These careers are united by a powerful purpose: to promote civic responsibility and safeguard the well-being, security, functionality, and resilience of our communities, states, and nations.



Are you interested in a career in Public Service & Safety? Talk to your school counselor or teachers about what classes to take and visit HenricoCTE.com for more information.

Do you like to . . .

- Make a difference in your community?
- Show empathy, compassion, and desire to help ?
- Put people at ease and give them a sense of safety?
- Show courage and work in the face of danger?
- Demonstrate your inner strength to survive in a demanding profession?

Sample Careers

- Judge
- Attorney
- Paralegal
- Court Reporter
- Police Officer
- Correctional Officer
- Probation/Parole Officer
- Immigration and Customs Inspector
- Fire Fighter
- Rescue Worker (EMT, Paramedic)
- Emergency Dispatcher
- Loss Prevention Specialist
- Information Systems Security Specialist
- Certified Security Officer
- Military

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High School Courses

- Criminal Justice I & II: #8702, #8703 (ACE), Honors
- Firefighting I & 2: #8705, #8706 (ACE), Honors
- Legal Systems Administration: #6735 (ACE)
- JROTC/Military Science

In-Demand Careers

Education Needed	Occupation	Median Salary	Job Growth Over next 10 years	Job Openings Projected over next 10 years
High School Diploma	Firefighters	$59,530 per year	3% (As fast as average)	11,800
	Police and Detectives	$77,270 per year	3% (As fast as average)	20,900
	Police, Fire, and Ambulance Dispatchers	$50,730 per year	3% (As fast as average)	3,600
	Court Reporters	$67,310 per year	0% (Little or no change)	0
Associate Degree	Paralegals and Legal Assistants	$61,010 per year	0% (Little or no change)	600
Bachelor's Degree or more	Lawyers	$151,160 per year	4% (As fast as average)	35,900
	Arbitrators, Mediators, and Conciliators	$67,710 per year	4% (As fast as average)	400
	Judge	$135,160 per year	1% (Slower than average)	600
	Information Security Analysts	$124,910 per year	29% (Much faster than average)	52,100

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Source-U.S. Bureau of Labor Statistics, 2026

Building & Moving
Advanced Manufacturing





What is it?

Ready to shape the future of how things are made? The **Advanced Manufacturing Career Sub-Cluster** blends cutting-edge technologies with smart practices to transform design and production. This exciting field encompasses everything from engineering and research & development to automation, artificial intelligence, equipment maintenance, safety protocols, and rigorous quality control. Professionals in this cluster are driven to boost efficiency, minimize waste, guarantee safety, and deliver top-quality goods, ultimately propelling the industry forward and meeting the evolving demands of today's world.

Are you interested in a career in the Advanced Manufacturing? Talk to your school counselor or teachers about what classes to take and visit HenricoCTE.com for more information.

Do you like to . . .

- Figure out how things work?
- Work with your hands?
- Analyze and problem solve?
- Take raw materials and turn them into finished products?
- Pay attention to detail?

Sample Careers

- Production
- Manufacturing Production Process Development
- Maintenance
- Installation and Repair
- Logistics and Inventory Control
- Health Safety and Environmental Assurance
- Engineer in Design, Industrial, Aerospace, Quality, Logistical, Safety or Manufacturing
- Medical Appliance Manufacturer
- Microchip Manufacturer
- Precision Inspector, Tester or Grader
- Technician in Automated Manufacturing, Laser, Biomedical Equipment, Lab, Quality Control, Safety Coordination
- Inspector
- Machine Operator
- Communication System, Computer or Meter Installer or Repairer

Middle School Courses

- Introduction to Technology: #8481
- Inventions and Innovations: #8464
- Technology Foundations: #8402
- Technological Systems/
- Manufacturing: #8462

High School Courses

- High Tech Academy (ACE), Honors
- Precision Machining Technology: #8539, #8540 (ACE), Honors
- Welding: #8572, #8573 (ACE), Honors
- Engineering Explorations I Honors: # 8450
- Engineering Analysis and Applications II Honors: #8451
- Engineering Drawing/Design/CAD: #8436
- Exploring Computer Science: #6670
- Manufacturing Systems I With Metals: #8425
- Manufacturing Systems II With Woods: #8427
- Materials and Processes Technology with Metals: #8433M
- Materials and Processes Technology with Woods: #8433W
- Production Systems with Metals: #8447M
- Production Systems with Woods: #8433W
- Technology of Robotic Design: #8421
- Technology Transfer: #8404

In Demand Careers

Education Needed	Occupation	Median Salary	Job Growth Over next 10 years	Job Openings Projected over next 10 years
High School Diploma + Certification	Welders, Cutters, Solderers, and Brazers	$51,000 per year	2% (Slower than average)	9,900
	General Maintenance and Repair Workers	$48,620 per year	4% (As fast as average)	62,400
	Machinists and Tool and Die Makers	$57,700 per year	-2% (Decline)	-5,900
	Occupational Health and Safety Specialists and Technicians	$78,900 per year	12% (Much faster than average)	19,200
Associates Degree	Medical Equipment Repairers	$62,630 per year	13% (Much faster than average)	8,800
Bachelor's Degree or more	Industrial Engineers	$101,140 per year	11% (Much faster than average)	38,500
	Logisticians	$80,880 per year	17% (Much faster than average)	40,300

Source-U.S. Bureau of Labor Statistics, 2026



Building & Moving
Construction

What is it?

Do you want to help build the future, literally? The **Construction Career Sub-Cluster** is for you, focusing on the dynamic professions that design, plan, manage, and execute projects in our built environment. A critical aspect of this work is sustainable building, ensuring that every structure is environmentally sound and built to last. Careers in this cluster are absolutely pivotal: they create the durable infrastructure that serves us today without compromising the resources of tomorrow. Join this field to become an architect, engineer, construction manager, or skilled tradesperson and shape the world around us.



Are you interested in a career in the Construction cluster? Talk to your school counselor or teachers about what classes to take and visit HenricoCTE.com for more information.

Do you like to . . .

- Work with your hands?
- Use your creativity and problem-solving abilities to design and build?
- Work accurately with detail?
- Use your math skills proficiently?
- Work outdoors, indoors, or a combination of both?

Sample Careers

- Architectural and civil drafter or engineer
- Environmental designer
- Residential or commercial carpenter
- Construction worker
- Systems configuration manager
- Electrical design engineer
- Electrician
- HVAC/HVACR technician
- Building services technician
- Painter
- Sheet metal technician

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High School Courses

- Air Conditioning, Refrigeration, & Plumbing I & II: #8503, #8504 (ACE), Honors
- Carpentry I & II: #8601, #8602 (ACE), Honors
- Drafting I & II: #8530, #8531 (ACE), Honors
- Electricity & Cabling I & II: #8533, #8534 (ACE), Honors
- Heavy Equipment Operation (ACE), Honors
- Masonry I & II: #8512, 8513 (ACE), Honors
- Fire Protection Sprinkler Fitting and I&II: #8551, #8552 (ACE), Honors
- Advanced Drafting & Design: #8438
- Architectural Drawing/Design/CAD: #8437
- Construction Technology: #8432
- Electronic Systems I & II: #8416, #8412
- Technical Drawing/Design/CAD: #8435

In Demand Careers

Needed			Over next 10 years	Job Openings Projected over next 10 years
High School Diploma + Certification	Electricians	$62,350 per year	9% (Much faster than average)	77,400
	Plumbers, Pipefitters, and Steamfitters	$62,970 per year	4% (As fast as average)	22,700
	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	$59,810 per year	8% (Much faster than average)	34,500
	General Maintenance and Repair Workers	$48,620 per year	4% (As fast as average)	62,400
Bachelor's Degree or more	Construction Managers	$106,980 per year	9% (Much faster than average)	48,100
	Electrical and Electronics Engineers	$118,780 per year	7% (Much faster than average)	19,700
	Environmental Engineers	$100,090 per year	6% (Faster than average)	2,900

Source-U.S. Bureau of Labor Statistics, 2026

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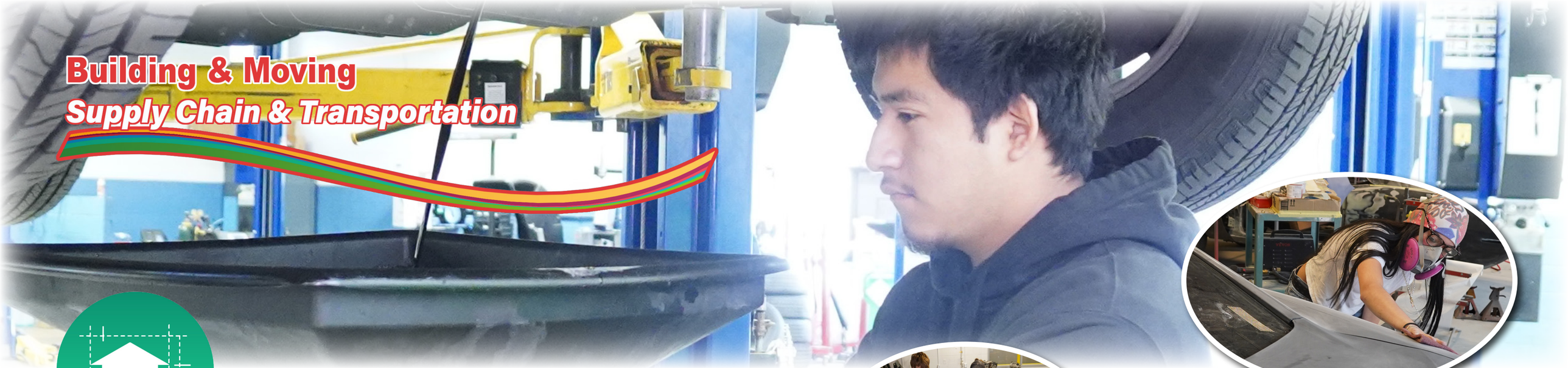
Building & Moving
Supply Chain & Transportation





What Is It?

Ever wonder how products get from factories to your doorstep? That's the world of the **Supply Chain & Transportation Career Sub-Cluster**! This dynamic field is dedicated to the precise transfer, coordination, and management of goods, ensuring their efficient journey from production all the way to consumption. It involves mastering various modes of transportation—from air and ground to water—and the essential upkeep of these systems. By seamlessly integrating logistics and distribution networks, this cluster underpins global commerce, drives economic development, and contributes significantly to community health by ensuring vital goods reach where they're needed.

Are you interested in a career in the Supply Chain & Transportation cluster? Talk to your school counselor or teachers about what classes to take and visit HenricoCTE.com for more information.

Do you like to . . .

- Problem solve?
- Work with your hands?
- Plan or schedule?
- Pay attention to detail?
- Drive vehicles or fix them?

Sample Careers

- Automotive Body Repairers
- Automotive Glass Installers and Repairers
- Automotive Service Technicians and Mechanics
- Watercraft Service Attendants
- Aircraft Mechanics and Service Technicians
- Billing and Posting Clerks
- Bus and Truck Mechanics
- Mobile Heavy Equipment Mechanics
- Motorboat Mechanics
- Motorcycle Mechanics
- Recreational Vehicle Service Technicians
- Automotive Glass Installers and Repairers
- Logisticians
- Railroad Conductors and Yardmasters
- Delivery Truck Drivers and Driver/Sales Workers
- Airline and Commercial Pilots

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High School Courses

- Auto Body Repair I & II: #8676, #8677 (ACE), Honors
- Automotive Technology I & II: #8506, #8507 (ACE), Honors
- Diesel Technologies I & II: #8613, #8614 (ACE), Honors
- Motorsports Technology I & II: #8509, #8510 (ACE), Honors
- Welding: #8572(ACE), Honors

In Demand Careers

Education Needed	Occupation	Median Salary	Job Growth Over next 10 years	Job Openings Projected over next 10 years
High School Diploma + Certification	Diesel Service Technicians and Mechanics	$60,640 per year	2% (Slower than average)	7,800
	Delivery Truck Drivers and Driver/Sales Workers	$42,770 per year	8% (Much faster than average)	118,700
	Small Engine Mechanics	$48,240 per year	4% (As fast as average)	3,300
	Aircraft and Avionics Equipment Mechanics and Technicians	$79,140 per year	5% (Faster than average)	7,300
Bachelor's Degree or more	Airline and Commercial Pilots	$198,100 per year	4% (As fast as average)	6,700
	Logisticians	$80,880 per year	17% (Much faster than average)	40,300

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Source-U.S. Bureau of Labor Statistics, 2026

Connecting & Supporting Success

Digital Technology



What Is It?

The **Digital Technology Career Sub-Cluster** focuses on developing digital systems for communication and data storage using critical technologies such as artificial intelligence (AI), data analytics, and cybersecurity. This Cluster builds skills necessary for all careers to navigate and lead in the constantly evolving tech landscape and drives innovation across all industries to tackle complex challenges and opportunities in communities and economies.

This Career Sub-Cluster is also a Cross-Cutting Cluster as the skills gained through this Career Clusters area are applicable across all Career Clusters.

Are you interested in a career in the Digital Technology cluster? Talk to your school counselor or teachers about what classes to take and visit HenricoCTE.com for more information.

Do you like to . . .

- Design and develop computer hardware, software, and systems?
- Use your math and computer skills proficiently?
- Pay attention to detail?
- Use your problem-solving abilities to serve others?
- Practice patience and stay on task?

Sample Careers

- Web Designer or Webmaster
- Network Administrator or Technician
- Cybersecurity
- Data Communications Analyst
- Security or Database Administrator
- Cloud Computing
- Computer or Game Programmer
- Software Applications Architect
- Information Support & Services
- IT Systems
- Help Desk Specialist
- Technical Writer

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Middle School Courses

Digital Applications: #6617
Discovering Business & IT: #6608
Exploring Business Skills and Keyboarding: #6148
Exploring Computer Science: #6670MS
Introduction to Coding: #6607
Introduction to Game Design and Coding: #6642MS

High School Courses

- Cybersecurity Pathway: #8622, #8623, #8628, #8629 (ACE), Honors
- Exploring Computer Science: #6670
- Digital Applications: #6617
- Cybersecurity Fundamentals Honors: #6302

In-Demand Careers

Education Needed	Occupation	Median Salary	Job Growth Over next 10 years	Job Openings Projected over next 10 years
Associates Degree	Web Developers	$95,380 per year	7% (Much faster than average)	15,500
	Computer Support Specialists	$61,550 per year	-3% (Decline)	-24,200
Bachelor's Degree or more	Database Administrators	$123,100 per year	4% (As fast as average)	5,300
	Software Developers	$131,450 per year	15% (Much faster than average)	287,900
	Information Security Analysts	$124,910 per year	29% (Much faster than average)	52,100
	Computer and Information Systems Managers	$171,200 per year	15% (Much faster than average)	101,600

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Source-U.S. Bureau of Labor Statistics, 2026

Connecting & Supporting Success
Management & Entrepreneurship



What Is It?

The **Management & Entrepreneurship Career Sub-Cluster** involves skills and occupations that are essential across all industries, focusing on business administration, operations optimization, strategic planning, workforce management, and entrepreneurship. It merges key areas such as data management and analysis, human resources, general operations, administrative support, project management, and organizational leadership. This Cluster ensures that businesses across all industries efficiently meet their goals, adapt to market changes, and maintain competitive advantage. By emphasizing entrepreneurship, this Cluster supports the creation of new ventures, driving economic growth and innovation and making it a cornerstone of modern economies.

This Career Sub-Cluster is also a Cross-Cutting Cluster as the skills gained through this Career Clusters area are applicable across all Career Clusters.

Do you like to . . .

- Communicate effectively with others?
- Organize, plan and multi-task?
- Pay attention to detail?
- Practice leadership skills?
- Use your math skills proficiently?

Sample Careers

- Chief Executive Officer
- Entrepreneur
- Controller
- Adjuster
- Budget, Cost or Systems Analyst
- Marketing Manager
- Human Resources Manager
- Training and Development Specialist
- Executive Assistant
- Wholesale or Retail Buyer
- Retail Salesperson
- Meeting and Convention Planner
- Bookkeeper
- Office Manager
- Receptionist

Are you interested in a career in the Management & Entrepreneurship Career Cluster? Talk to your school counselor or teachers about what classes to take and visit HenricoCTE.com for more information.

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Middle School Courses

- Make It Your Business: #8112
- Principles of Business and Marketing:#6116

High School Courses

- Entrepreneurship and Digital Marketing (ACE), Honors
- Healthcare Management: #6730 (ACE)
- Legal Systems Administration: #6735(ACE)
- Business Management: #6136
- Entrepreneurship: #9093, #9093V
- Office Administration: #6621, 6621V
- Principles of Business & Marketing: #6115
- Microsoft IT Academy: #6612
- Advanced Microsoft IT Academy Honors: #6613

In-Demand Careers

Education Needed	Occupation	Median Salary	Job Growth Over next 10 years	Job Openings Projected over next 10 years
Bachelor's Degree or more	Administrative Services and Facilities Managers	$106,880 per year	4% (As fast as average)	18,300
	Meeting, Convention, and Event Planners	$59,440 per year	5% (Faster than average)	7,500
	Training and Development Specialists	$65,850 per year	11% (Much faster than average)	48,700
	Advertising, Promotions, and Marketing Managers	$159,660 per year	6% (Faster than average)	26,100
	Human Resources Managers	$140,030 per year	5% (Faster than average)	11,100

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Source-U.S. Bureau of Labor Statistics, 2026



What Is It?

The **Marketing & Sales Career Sub-Cluster** focuses on promoting products, understanding consumer needs, engaging with communities, and driving sales. It integrates digital marketing, data analysis, brand promotion, customer relationship management, strategic communications, human-centered design, and retail strategies to build strong customer connections and support business growth. This Cluster is essential in all industries for creating value, effectively reaching and engaging target audiences, and achieving commercial success in a competitive marketplace.

This Career Sub-Cluster is also a Cross-Cutting Cluster as the skills gained through this Career Clusters area are applicable across all Career Clusters.

Are you interested in a career in the Marketing & Sales cluster? Talk to your school counselor or teachers about what classes to take and visit HenricoCTE.com for more information.

Do you like to . . .

- Communicate effectively with others?
- Organize, plan and multi-task?
- Be persuasive?
- Use your creativity and problem-solving abilities to serve others?
- Show your initiative and tenacity?



Sample Careers

- Manager of sales or information
- Researcher
- Sales Specialist
- Demonstrator or Product Promoter
- Wholesale or retail buyer
- Distributor
- Public Relations Manager or Specialist
- Marketing Communications or Promotions Manager or Specialist

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High School Courses

- Entrepreneurship & Digital Marketing(ACE), Honors
- Digital and Social Media Marketing: #8125
- Fashion Marketing I & II: #8140, #8145
- Marketing I & II: #8120, #8130
- Sports and Entertainment Marketing I & II: #8175, #8177
- Sports and Entertainment Marketing II Honors: #8177, #8177V

In-Demand Careers

Education Needed	Occupation	Median Salary	Job Growth Over next 10 years	Job Openings Projected over next 10 years
Bachelor's Degree or more	Market Research Analysts	$76,950 per year	7% (Much faster than average)	63,000
	Advertising, Promotions, and Marketing Managers	$159,660 per year	6% (Faster than average)	26,100
	Sales Managers	$138,060 per year	5% (Faster than average)	29,000
	Public Relations Specialists	$69,780 per year	5% (Faster than average)	15,000
	Sales Engineers	$121,520 per year	5% (Faster than average)	3,100
	Market Research Analysts	$76,950 per year	7% (Much faster than average)	63,000
	Public Relations and Fundraising Managers	$132,870 per year	5% (Faster than average)	6,100

Source-U.S. Bureau of Labor Statistics, 2026

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Creating & Experiencing
Arts, Entertainment, & Design



What Is It?

The **Arts, Entertainment, & Design Career Sub-Cluster** encompasses diverse creative roles in visual arts, film, journalism, fashion, interior design, and creative technologies. This cluster is dedicated to the creation, production, and dissemination of artistic and design work across various platforms. Its core mission is to entertain, inform, beautify, and inspire audiences through compelling content and innovative design.



Are you interested in a career in the Arts, Entertainment, & Design Career Cluster? Talk to your school counselor or teachers about what classes to take and visit HenricoCTE.com for more information.

Do you like to . . .

- Communicate effectively with others?
- Organize, plan and multi-task?
- Pay attention to detail?
- Practice leadership skills?
- Use your math skills proficiently?

Sample Careers

- Graphic Designers
- Lighting Technicians
- Publicity Directors
- Cutters/Fitters/Seamstress
- Fine Artists
- Photographers
- Special Effects Coordinators
- Videographers
- Camera Operators
- Animators
- Sound Technicians
- Make-Up Artists
- Sign Painters
- Audio and Video Technology and Film
- Broadcasting and Journalism
- Performing Arts
- Printing Technology
- Telecommunications

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High School Courses

- Commercial Photography: #8607, #8608 (ACE), Honors
- Game Design & Web Development I&II: #6680, #6681 (ACE), Honors
- Graphic Communications I & II: 8660, #8661 (ACE), Honors
- Radio Broadcasting & Journalism: I & II: #8640, #8641 (ACE), Honors
- TV Media Production I&II Course No. #8688, #8689 (ACE), Honors
- Communication Systems: #8415
- Digital Visualization: #8459
- Creative Fashion (Intro to Fashion Careers): #8248
- Introduction to Interior Design: #8254
- Introduction to Photography: #8474
- Photography (Imaging Technology): #8455
- Video & Media Technology: #8497

Middle School Courses

- Introduction to Game Design and Coding: #6642
- Multimedia Graphic Design: IB6632

In-Demand Careers

Education Needed	Occupation	Median Salary	Job Growth Over next 10 years	Job Openings Projected over next 10 years
Associates Degree	Actors	$45,510 per year	0% (Little or no change)	200
	Broadcast and Sound Engineering Technicians	$56,600 per year	1% (Slower than average)	1,500
Bachelor's Degree or more	Producers and Directors	$83,480 per year	5% (Faster than average)	8,300
	Multimedia Artists and Animators	$99,800 per year	2% (Slower than average)	900
	Film and Video Editors and Camera Operators	$70,570 per year	3% (As fast as average)	2,200
	Special Effects Artists and Animators	$99,800 per year	2% (Slower than average)	900

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Source-U.S. Bureau of Labor Statistics, 2026

Creating & Experiencing
Hospitality, Events, & Tourism



What Is It?

The **Hospitality, Events, & Tourism Career Sub-Cluster** covers a wide spectrum of services and experiences, including food and beverage, lodging, travel, events, and conferences. This cluster's core mission is to provide quality customer service, unforgettable experiences, and meticulous logistics to meet the varied needs and preferences of guests, tourists, and event attendees. Characterized by its immense diversity, the field ranges from luxury accommodations and global travel to vibrant local dining, cultural festivals, and professional business conferences, all working to elevate the overall experience for every participant.

Are you interested in a career in the Hospitality & Tourism cluster? Talk to your school counselor or teachers about what classes to take and visit HenricoCTE.com for more information.

Do you like to . . .

- Help people have fun and feel at ease?
- Get along well with other people?
- Practice excellent active listening skills, patience and empathy?
- Pay attention to detail?
- Communicate effectively with others?

Sample Careers

- Restaurant, Food Service, Lounge, Casino, Coffee Shop, or Catering Owner, Operator or Manager
- Hotel, Motel, Resort, or Bed and Breakfast Owner, Operator or Manager
- Tour Company Owner, Operator, or Manager
- Meeting and Convention Planner
- Interpreter or Translator
- Tourism and Travel Services Marketing Manager

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High School Courses

- Culinary Arts I & II: # 8275, #8276 (ACE), Honors
- Baking and Pastry Specialization: #8279 (ACE), Honors
- Event Planning and Tourism Marketing I and II: #8139, #8169 (ACE)
- Introduction to Culinary Arts: #8250
- Nutrition and Wellness: #8229, #8228

In-Demand Careers

Education Needed	Occupation	Median Salary	Job Growth Over next 10 years	Job Openings Projected over next 10 years
High School Diploma + Certification	Food and Beverage Server and Related Workers	$31,040 per year	5% (Faster than average)	268,000
	Lodging Managers	$68,130 per year	3% (As fast as average)	1,800
	Food Service Managers	$65,310 per year	6% (Faster than average)	22,600
	Chefs and Head Cooks	$60,990 per year	7% (Much faster than average)	14,000
Bachelor's Degree or more	Meeting, Convention, and Event Planners	$59,440 per year	5% (Faster than average)	7,500
	Interpreters and Translators	$59,440 per year	2% (Slower than average)	1,300

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Source-U.S. Bureau of Labor Statistics, 2026



What Is It?

Interested in how science meets the plate? The **Agriculture Career Sub-Cluster** is all about advancing agri-science, from cultivating and processing to distributing agricultural products. This dynamic field leverages advanced technologies and sustainable practices to optimize our global food systems. But it's not just about food—this cluster also supports vital plant- and animal-based industries like regenerative agriculture, sustainable logging, and fisheries. In fact, it has strong ties with the Energy and Natural Resources Cluster, showcasing a symbiotic relationship that's essential for environmental stewardship and building resilient communities.



Are you interested in a career in the Agriculture Career cluster. Talk to your school counselor or teachers about what classes to take and visit HenricoCTE.com for more information.

Do you like to . . .

- Work with your hands?
- Grow food and plants?
- Problem solve?
- Work mostly outdoors?
- Help people?

Sample Careers

- Ag Engineer
- Farmer
- Ag Lawyer
- Heavy Equipment operator
- Diesel Mechanic
- Small Engine Mechanic
- Golf Course Superintendent
- Greenhouse/Nursery Operator
- Ag Loan Officer
- Food Scientist
- Ag Lobbyist
- Ag Teacher
- Feed/Seed/ Supplies Store Owner/Operator
- Rancher
- Botanist
- Geneticist
- Soil scientist
- Water Specialist
- Range Management
- Wildlife Management
- Forestry

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High School Courses

Recommended courses for high schools:

- Geospatial & Uncrewed Aircraft Technologies: #8423, #8910 (ACE) Honors
- Horticulture: Floriculture and Greenhouse Management: #8035 (ACE), Honors
- Horticulture: Landscaping and Plant Science: #8036 (ACE), Honors
- Vet Science I & II: #8088, #8089 (ACE), Honors
- Geospatial Technology Honors: #8423

In Demand Careers

Education Needed	Occupation	Median Salary	Job Growth Over next 10 years	Job Openings Projected over next 10 years
High School Diploma	Farmers, Ranchers, and Other Agricultural Managers	$87,980 per year	-1% (Decline)	-11,100
	Grounds Maintenance Workers	$38,470 per year	4% (As fast as average)	45,900
	Landscape Architects	$79,660 per year	3% (As fast as average)	800
Bachelor's Degree or more	Agricultural and Food Scientists	$78,770 per year	6% (Faster than average)	2,300
	Agricultural Engineers	$84,630 per year	6% (Faster than average)	100
	Environmental Scientists and Specialists	$80,060 per year	4% (As fast as average)	4,000
Masters Degree or more	Agriculture Lawyer	$151,160 per year	4% (As fast as average)	35,900

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Source-U.S. Bureau of Labor Statistics, 2026



Cultivating Resources
Energy & Natural Resources

What is it?

Ready to help shape a sustainable future? The **Energy & Natural Resources Career Sub-Cluster** is where you'll find diverse opportunities in everything from traditional and renewable fuel production to power generation, energy conversion, and utilities. This cluster also encompasses crucial roles in environmental preservation, ecological research, and responsible resource extraction. Professionals in these fields are committed to efficient and responsible resource management, including conservation, transmission, distribution, and storage. Their goal? To minimize our environmental footprint and ensure the world's energy demands are met. Join this cluster to innovate cleaner energy solutions and safeguard our planet's natural resources for generations to come.

Are you interested in a career in the Energy & Natural Resources cluster? Talk to your school counselor or teachers about what classes to take and visit HenricoCTE.com for more information.

Do you like to . . .

- Help people in your community while safeguarding our environment?
- Use your excellent math and science skills?
- Look at and propose solutions to a problem through multiple approaches?
- Collaborate in teams?
- Ask questions?

Sample Careers

- Architects
- Civil Engineers
- Construction and Building Inspectors
- Control and Valve Installers and Repairers
- Electrical Engineers
- Electrical Power Line Installers and Repairers
- Electricians
- Electronics Engineers
- Facilities Manager
- Gas Plant/Refinery Operator, Accountant
- Wind Turbine Service Technicians
- Communications/Public Relations Specialist
- Geologist
- Solar Photo-Voltaic Installers
- Solar System Design & Installation
- Environmental Science & Sustainability

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High School Courses

Recommended courses for high schools:

- Electricity & Cabling I & II: #8533, #8534 (ACE) Honors
- Energy and Power: #8448, #8495 (ACE) Honors
- Electronic Systems I & II: #8416, #8412
- Energy Demand: Sustainability and Efficiency: #8411ED, #8411ES

In Demand Careers

Education Needed	Occupation	Median Salary	Job Growth Over next 10 years	Job Openings Projected over next 10 years
High School Diploma + Certification	Electricians	$62,350 per year	9% (Much faster than average)	77,400
	Electrical Power-Line Installers and Repairers	$92,560 per year	7% (Much faster than average	8,400
	Solar Photovoltaic Installers	$51,860 per year	42% (Much faster than average)	12,000
	Wind Turbine Technicians	$62,580 per year	50% (Much faster than average)	6,800
Bachelor's Degree or more	Electrical and Electronics Engineers	$118,780 per year	7% (Much faster than average)	19,700
	Civil Engineers	$99,590 per year	5% (Faster than average)	18,500
	Architects	$96,690 per year	4% (As fast as average)	4,800
	Geoscientists	$99,240 per year	3% (As fast as average)	800

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Source-U.S. Bureau of Labor Statistics, 2026

Investing in the Future

Financial Services



What Is It?

Interested in a career that drives economic growth and helps individuals and organizations thrive financially? The **Financial Services Career Sub-Cluster** is your pathway! This field encompasses a wide range of vital roles, including banking, lending, corporate finance, debt management, accounting, insurance, and real estate. By managing and advising on financial transactions, these careers directly contribute to the stability and prosperity of our economy.



Are you interested in a career in the Financial Services cluster? Talk to your school counselor or teachers about what classes to take and visit HenricoCTE.com for more information.

Do you like to . . .

- Work daily with numbers?
- Assist people with the management of money?
- Organize, plan and multi-task?
- Pay attention to detail?
- Communicate effectively with others?

Sample Careers

- Accountant
- Auditor
- Development Officer
- Financial Analyst
- Treasurer
- Controller
- Economist
- Budget Analyst
- Personal Financial Advisor
- Tax Preparer
- Investment Advisor
- Loan Officer
- Debt Counselor
- Actuary
- Underwriter
- Insurance Appraiser
- Bank Teller

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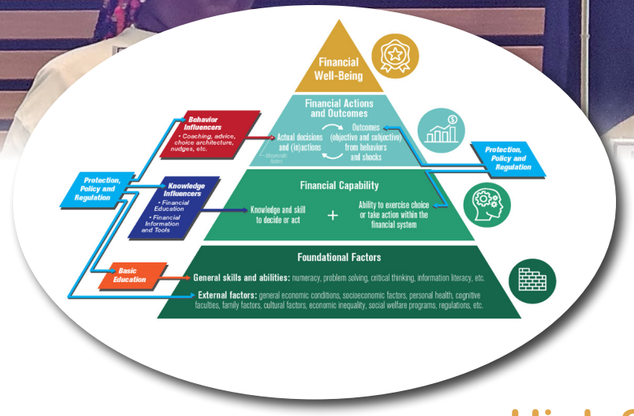

High School Courses

Accounting I Honors: #6320, 6320V
Business Law: #6132
Economics and Personal Finance: #6120 (Required course)

In-Demand Careers

Education Needed	Occupation	Median Salary	Job Growth Over next 10 years	Job Openings Projected over next 10 years
Bachelor's Degree or more	Loan Officers	$74,180 per year	2% (Slower than average)	5,000
	Personal Financial Advisors	$102,140 per year	10% (Much faster than average)	31,200
	Budget Analysts	$87,930 per year	1% (Slower than average)	500
	Financial Analysts	$101,910 per year	6% (Faster than average)	25,100
	Accountants and Auditors	$81,680 per year	5% (Faster than average)	72,800
	Financial Managers	$161,700 per year	15% (Much faster than average)	128,800
	Economists	$115,440 per year	1% (Slower than average)	200

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Source-U.S. Bureau of Labor Statistics, 2026



The JROTC/Military Science program *offered in 6 Henrico high schools is an elective designed to provide students with a wide range of valuable skills and knowledge. It's crucial to understand that:

- **No Military Obligation:** Students participating in JROTC are not required to join the military after graduation.
- **Curriculum Focus:** Students are introduced to the Junior Reserve Officer Training Corps (JROTC) curriculum, which emphasizes foundational U.S. citizenship rights and responsibilities.

Through the program, students develop a diverse set of skills, including:

- **Leadership:** Fostering the ability to guide and motivate others.
- **History:** Gaining an understanding of military and national history.
- **Communication Techniques:** Improving verbal and non-verbal communication skills.
- **Disciplined Study Habits:** Learning effective approaches to academic work.
- **Management Skills:** Developing organizational and planning abilities.
- **First Aid:** Acquiring essential life-saving techniques.
- **Drug Abuse Prevention:** Education on the dangers of substance abuse.
- **Map Reading:** Practical navigation skills.
- **Physical Fitness:** Promoting a healthy and active lifestyle.
- **Workplace Readiness Skills:** Cultivating essential soft skills necessary for any career.

Deep Run High School	Henrico HS Varina HS	Hermitage HS Highland Springs HS J.R. Tucker HS



Air Force JROTC I/II/III/IV: #7913, #7916, #7918, #7919
Offered at Deep Run High School. It is based on Air Force requirements and led by active-duty Air Force officers. Training covers everything from leadership studies to combat techniques. The Air Force JROTC program is regulated by the military and participation may improve rank upon enlisting.



Marine JROTC I/II/III/IV: #7913, #7916, #7918, #7919
Offered at Hermitage, Highland Springs, and J.R. Tucker High Schools. It is based on Marine Corps requirements and led by active-duty Marine Corps officers. The program can motivate students to learn, foster a disciplined and constructive learning environment, and instill essential skills like time organization, responsibility, goal setting, and teamwork.



Naval JROTC I/II/III/IV: #7913, #7916, #7918, #7919
Offered at Henrico and Varina High Schools. It is based on Navy requirements and led by active-duty Navy officers. It introduces students to the meaning of citizenship, the elements of leadership, and the value of scholarship in attaining life goals; promote an awareness of the importance of a healthy lifestyle, including physical fitness, a proper diet, and controlling stress; drug awareness; provide the principles of health and first aid, geography and survival skills and an overview of Naval ships and aircraft.



The Summer Building Trades Program offers an intensive, six-week experience where students actively participate in constructing a house from the ground up. This program allows them to gain practical, hands-on experience in multiple trades, including:

Masonry
Electricity
Carpentry
Plumbing
HVAC
Sprinkler Fitting
and more...

HBP
HOUSE BUILDING PROJECT

SBT
SUMMER BUILDING TRADES
HENRICO CAREER & TECHNICAL EDUCATION

Students in the summer program continue the work on an actual house that was initially started by students from the two Advanced Career Education (ACE) Centers during the regular school year.

This valuable opportunity is made possible by the dedicated efforts of the Henrico County Vocational/ Technical Education Foundation. The Foundation's mission, along with their House Building Project, is to provide "real-life, hands-on experience to students involved in the housing industry and associated programs in Henrico County Public Schools," reinforcing the practical application of CTE education. To find out more about the Summer Building Trades click here.





Summer Career Camps
HENRICO CAREER & TECHNICAL EDUCATION



The CTE Summer Career Camps program in Henrico provides a four-week introductory experience to many of the Advanced Career Education (ACE) Center classes offered during the regular school year.

This program is open to students who are rising 6th through 12th graders. A significant benefit for rising 9th through 12th graders who complete one of these courses is the awarding of a half-credit.

The Summer Career Camps serve as an excellent opportunity for students to explore and "try out" the diverse range of options available at the ACE Centers before committing to a full-year course. For more information about Summer Career Camps click here.





Student Organizations

Henrico CTE offers students the opportunity to participate in Career and Technical Student Organizations (CTSOs). These organizations are designed to enrich the student experience by connecting classroom learning to a broader network of peers and professionals.
Through their involvement in CTSOs, students gain valuable skills essential for success in today's and tomorrow's careers, including:

- **Professional Skills:** Developing a professional demeanor, understanding industry standards, and networking.
- **Leadership Skills:** Taking on leadership roles, managing projects, and guiding others.
- **Problem-Solving:** Applying critical thinking to real-world challenges and finding effective solutions.
- **Communication Skills:** Enhancing both verbal and written communication for various professional contexts.
- **Teamwork Skills:** Learning to collaborate effectively with others towards common goals.

CTSOs provide a practical extension of the classroom, allowing students to apply their knowledge in competitive events, community service projects, and leadership roles, further preparing them for their chosen career paths. Click here for more information.

FCCLA – Family, Career and Community Leaders of America
FBLA
TSA – Technology Student Association
SkillsUSA
hosa – future health professionals
DECA

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Career Ambassadors

The Career Ambassadors Program in Henrico provides a unique leadership opportunity for current ACE Center seniors. These students serve as representatives, sharing their personal experiences with career exploration and Henrico's CTE programs.

Their role involves engaging with various audiences, including:

Prospective Students: Through elementary school Career Fairs, middle school Career Clubs, and school visits, they offer insights to younger students considering their future pathways.

Community Supporters: They help build awareness and support for CTE initiatives within the broader community.

District-Wide Events: Participating in larger events to promote CTE options across the Henrico school district.

By providing first-hand connections to the K-12 career experience, Career Ambassadors play a vital role in promoting and advocating for the numerous CTE opportunities available in Henrico.
Click here for more information.

ACE Career Ambassador



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Work-Based Learning Experiences

Work-Based Learning (WBL) in Henrico CTE is a vital component of their educational approach, designed to connect classroom instruction with real-world applications. It involves experiences that are directly related to students' career interests, built upon their instructional preparation, and conducted in collaboration with local businesses or organizations.

The core purpose of WBL is to allow students to apply the knowledge and skills gained in the classroom within an actual work environment.

Henrico CTE courses integrate WBL experiences across three key stages:

Learn about work

Career Fairs
Guest Speakers
Field Trips
Job Shadowing
Worksite Tours

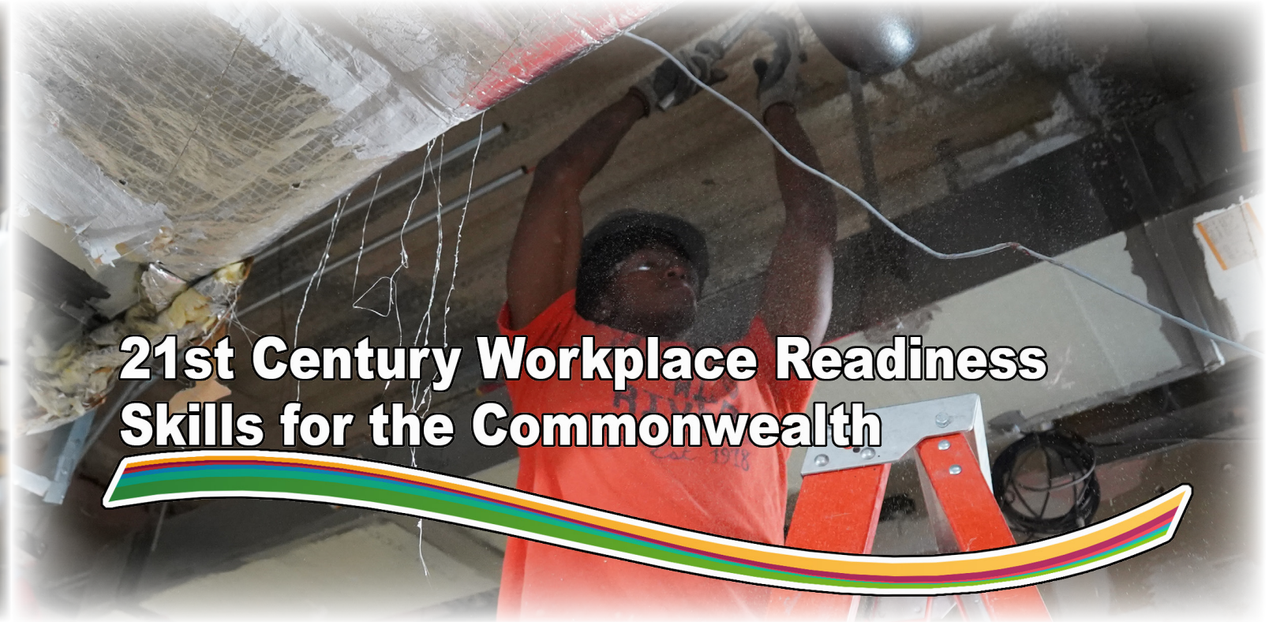
Learning Through Work

Career Competitions
Mentoring
Mock Interviews
Career Fairs
Service Learning
Teacher Externships

Learning For Work

Apprenticeships
Co-Ops
Fellowships
Internships
On Job Training
Pre-Apprenticships

The core purpose of WBL is to allow students to apply the knowledge and skills gained in the classroom within an actual work environment. Click here for more information.



21st Century Workplace Readiness Skills for the Commonwealth

In Virginia, "workplace readiness skills" are a crucial set of abilities and behaviors identified by employers as essential for students to possess when entering the workforce. These skills enable individuals to effectively interact with supervisors and co-workers in any career.

While sometimes referred to as "soft skills," they are more accurately described as "essential skills" due to their fundamental importance for career success. In Henrico CTE, these skills are a required component of the education provided.

In essence, these skills bridge the gap between academic knowledge and the practical demands of the professional world, making students truly "workplace ready."

Personal Qualities and Abilities

1. CREATIVITY AND INNOVATION
2. CRITICAL THINKING AND PROBLEM-SOLVING
3. INITIATIVE AND SELF-DIRECTION
4. INTEGRITY
5. WORK ETHIC

Interpersonal Skills

6. CONFLICT RESOLUTION
7. LISTENING AND SPEAKING
8. RESPECT FOR DIVERSITY
9. CUSTOMER SERVICE ORIENTATION
10. TEAMWORK

Professional Competencies

11. BIG PICTURE THINKING
12. CAREER AND LIFE MANAGEMENT
13. CONTINUOUS LEARNING AND ADAPTABILITY
14. EFFICIENCY AND PRODUCTIVITY
15. INFORMATION LITERACY
16. INFORMATION SECURITY
17. INFORMATION TECHNOLOGY
18. JOB-SPECIFIC TOOLS AND TECHNOLOGIES
19. MATHEMATICS
20. PROFESSIONALISM
21. READING AND WRITING
22. WORKPLACE SAFETY

Workplace Readiness Skills for the Commonwealth was developed by the Virginia Department of Education's Office of Career, Technical, and Adult Education, in cooperation with the University of Virginia's Weldon Cooper Center for Public Service, the Career and Technical Education Consortium of States, and Virginia's CTE Resource Center.



The **Life Ready Expo** is an event designed for students in grades 6-12 and their families to explore diverse career opportunities. It provides a valuable platform for attendees to:

Engage with Employers: Students and families can interact directly with employers from various career clusters. This allows them to learn about specific job opportunities within those companies and gain insights into potential earning potential.

Discover Industry Careers: Employers also share broader information about career paths and trends within their respective industries.

Make Connections and Explore "Learn and Earn" Opportunities: The expo helps students make connections with potential employers and discover programs where companies fund employee college education or provide other training after high school, showcasing various pathways to "learn and earn."

The Life Ready Expo aims to provide a comprehensive overview of career possibilities and educational pathways, empowering students to make informed decisions about their future.
Click here for more info.



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50 YEARS OF INNOVATION











The **#LifeReady Career Rodeo** provides a unique platform for students to demonstrate their abilities to various stakeholders, particularly potential employers. During this event, students tackle work-based challenges, giving businesses a direct look at their soft skills and hands-on capabilities. This direct engagement can often lead to full-time employment opportunities for students.

It's through these kinds of work-based learning experiences and the development of essential soft skills that Henrico aims to ensure its students are truly #LifeReady. Click here for more info.

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Henrico CTE's Letter of Intent Signing Day

Henrico County's commitment to ensuring every student is **"Enrolled, Enlisted, and/or Employed"** is proudly showcased through their **CTE Letter of Intent Signing Day**. This event, introduced in 2018, serves to formally recognize students who are directly entering the workforce after graduation, giving them the same celebratory honor traditionally bestowed upon students committing to college or military service.



The initiative quickly garnered national attention. Shortly after its debut, it received a ringing endorsement from Mike Rowe, former host of "Dirty Jobs," who praised it as "not just a terrific idea, it's a model for every other technical school in the country. Here's hoping others will follow Henrico's lead." This recognition led to Henrico CTE being featured in numerous live interviews and articles by major media outlets across the country.

Since that initial event, the CTE Letter of Intent Signing Day model has been replicated in 49 states and Canada, demonstrating its widespread impact and effectiveness in highlighting the value of skilled trades. This annual event brings together students, teachers, and Virginia businesses, facilitating connections that lead to well-paying jobs requiring certified skills and often offering opportunities for continued education. Click here for more info.





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HBP
HOUSE BUILDING PROJECT

Henrico CTE offers several programs with a direct connection to the housing industry, providing students with hands-on experience in construction crafts. These programs include Carpentry, Electricity, Computer Aided Drafting, Masonry, Plumbing, Sprinkler Fitting, HVAC and more!

A key component of this real-world learning is the Henrico County Vocational/Technical Education Foundation's House Building Project. Through this initiative, students apply their classroom knowledge to construct an actual house every two years. This project offers invaluable practical experience, preparing them for rewarding careers in architecture and construction.

Since its inception in 1987, Henrico CTE students have successfully built 20 houses in Henrico County. The funds generated from the sale of each house are reinvested to ensure the continuation of this project and support scolarships and more. Click here for more info.



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Dive into the dynamic world of career and technical education (CTE) with **Henrico CTE Now**! This podcast features insightful discussions with business leaders, industry experts, parents, and students, offering a comprehensive look at exciting career opportunities, new CTE programs, relevant news, and key events.

Don't miss out on the conversation! Tune into Henrico CTE Now wherever you get your podcasts, including Spotify, Apple, and Google. Like and subscribe today to stay informed and inspired! Click here for more information.

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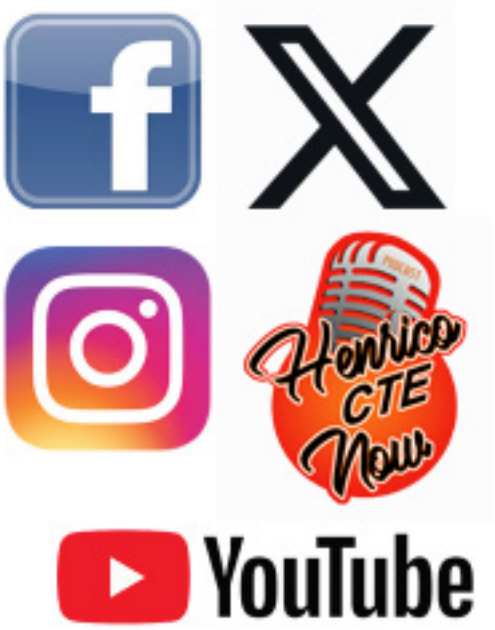
Talk to your teacher or counselor about Henrico CTE middle and high school courses. Be sure to visit our website, HenricoCTE.com for more information.



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