SPOTLIGHT ONE

A Publication of Richland County School District One













CELEBRATING CAREER & TECHNICAL EDUCATION



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SPOTLIGHT ONE · CTE EDITION

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ABOUT THIS PUBLICATION:

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SUPERINTENDENT'S MESSAGE

In Richland One, we prepare our students for a successful life beyond high school, whether they plan go to college, enlist in the military or head into the workforce.

We invite you to explore our world-class career and technical education (CTE) programs in this edition of Spotlight ONE. We are proud that many of our CTE programs are the first of their kind in South Carolina and serve as models for other school districts. Richland One was also the first district in the state to offer all 16 career clusters.

Our CTE programs connect students to college and careers by providing them with opportunities to explore specific career pathways and develop valuable, marketable skills before they leave high school. By completing CTE programs, our students gain the knowledge, attitude and skills they need to succeed in post-secondary education and careers. Our students also can earn state and nationally recognized industry certifications, giving them a competitive advantage in the job market.

As the labor crisis impacts business and industry at every level, Richland One serves as a vital asset to the local and state economy by providing a pipeline of talented young professionals who are ready to learn and work.

Students and parents who are interested in learning more about our CTE programs can meet with their school counselors to discuss the next steps. Business and industry professionals looking to offer students internship and apprenticeship experiences and employment opportunities are asked to contact our Career and Technical Education Department at 803-735-3325.

We are preparing tomorrow's professionals today. We are Richland One Strong!

Sincerely,

Craig Witherspoon, Ed.D.

Superintendent

What is CTE?

Richland One's Career and Technical Education (CTE) programs offer high school students cutting-edge, relevant and rigorous classes that prepare them for college, military service and high-wage, high-skill, high-demand careers. There are 16 Career Clusters in the National Career Clusters Framework, and Richland One was the first district in the state to offer all of them.

CTE programs help students discover their interests and their passions and empower them to choose the pathway that can lead to success in high school, college and careers. Students enrolled in CTE programs may earn dual credit for college; receive state and nationally recognized industry certifications; and/or gain realworld work experiences (apprenticeships, internships, job shadowing, school-based enterprise, etc.).

Richland One CTE programs highlight core academic content while emphasizing WIN (Worldwide Interactive Network) Ready to Work (R2W) competencies, technical skills and a seamless transition to post-secondary opportunities. Additionally, the programs are designed to prepare students to meet the everchanging demands of the workforce, economic development and emerging industry sectors.

What are the benefits to the student?

CTE students' skills are matched with areas of interest and passion, thereby increasing the likelihood of future success, whether in academia or in the workforce. CTE programs also equip students with employability competencies that are in demand, including critical thinking, problem solving and time management. Moreover, students are able to gain industry-recognized credentialing and meaningful work-based learning experiences provided in CTE.



Glossary of Terms:

- Career Cluster: A career cluster is a grouping of occupations and broad industries based on commonalities. Within each career cluster, there are multiple majors/completer programs that represent a common set of skills and knowledge academic and technical necessary to pursue a full range of career opportunities.
- **Career Pathways:** The career pathways within the clusters consist of small groups of occupations which share common skills, knowledge and interests.
- CCR (College & Career Readiness): Graduates leave high school with a transcript that shows the student is ready to complete college-level academic expectations and/or the industry credentials that prove the student is ready to perform the job duties in a specific career path successfully.
- Completer Programs: Completer programs are similar to a student selecting a "major" in college. Completer programs are a set of required courses in a specified field of study.
- **CTE Completer:** A CTE completer is a student who has earned all of the required credits in a state-recognized CTE program.
- by earning a passing score or completing required skill assessments. Students can present the credential to local, state and/or national companies as proof of employability.
- Work-Based Learning: Students are granted relevant and appropriate transitions to future careers by participating in real-world, real-life, real-work experiences aligned to the students' career pathway. Students complete various types of work experiences during their high school career.

Richland One CTE Points of Pride

Richland One is setting the standard for career and technical education (CTE) in South Carolina. Many of the CTE programs we offer our students are the first of their kind in the state. These are just a few of our CTE Points of Pride. For more information about CTE programs in Richland One, go to RichlandOne.org/CTE.

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RICHLAND ONE WAS THE FIRST SCHOOL DISTRICT IN SOUTH CAROLINA TO OFFER ALL

16 NATIONALLY RECOGNIZED CAREER CLUSTERS.

RICHLAND ONE LAUNCHED THE DISTRICT'S
FIRST FIREFIGHTER COMPLETER PROGRAM
AT LOWER RICHLAND HIGH SCHOOL IN
PARTNERSHIP WITH THE COLUMBIA
FIRE DEPARTMENT IN 2017.



RICHLAND ONE ESTABLISHED THE STATE'S FIRST CERTIFIED

PRE-APPRENTICESHIP PROGRAM IN PARTNERSHIP WITH APPRENTICESHIP

CAROLINA IN FEBRUARY 2021.







IN AUGUST 2021, RICHLAND ONE BECAME THE STATE'S FIRST AND ONLY PILOT SITE FOR THE INCLUSION OF **JROTC PROGRAMS**IN CAREER AND TECHNICAL EDUCATION (CTE).

EXAMPLES OF RICHLAND ONE'S SUPPORT OF AND COMMITMENT TO CAREER AND TECHNICAL EDUCATION INCLUDE THE NEW STATE-OF-THE-ART, AWARD-WINNING CULINARY ARTS FACILITY AT HEYWARD CAREER AND TECHNOLOGY CENTER AND THE CTE RENOVATIONS AT LOWER RICHLAND AND EAU CLAIRE HIGH SCHOOLS.





IN 2019, RICHLAND ONE LAUNCHED THE STATE'S
FIRST HIGH SCHOOL COMMERCIAL DRIVER'S
LICENSE (CDL) PROGRAM AT EAU CLAIRE HIGH
SCHOOL IN PARTNERSHIP WITH THE SOUTH
CAROLINA TRUCKING ASSOCIATION. RICHLAND
ONE'S CDL PROGRAM IS NOW ONE OF THREE IN
SOUTH CAROLINA AND SIX NATIONWIDE.



CTE STUDENTS PARTICIPATING IN WORK-BASED LEARNING EXPERIENCES

ARE CELEBRATED AT A DISTRICT-WIDE CTE INTERNSHIP-APPRENTICESHIP

SIGNING DAY EVENT.



IN MAY 2022, 420 RICHLAND ONE STUDENTS WILL COMPLETE CTE PROGRAMS OF STUDY, INCLUDING HEALTH SCIENCE, ENGINEERING, SPORTS MEDICINE, CULINARY ARTS AND COSMETOLOGY. THE DISTRICT'S CTE DEPARTMENT FORMALLY RECOGNIZES STUDENTS WHO HAVE EARNED COMPLETER STATUS AT A GRADUATION-STYLE CTE COMPLETER CEREMONY.

CTE COMPLETER SPOTLIGHT

Richland One Culinary Arts Program Provided Inspiration, Training to Personal Chef and Business Owner

New York City native Jessica "Chef Pebbles" Daniel began cooking when she was very young, but the seed of her passion for establishing a food business didn't take root until her family moved to Columbia, South Carolina and she became a student in the culinary arts program at Richland One's Heyward Career and Technology Center.

Daniel is now a personal chef and owner of It's Chef Pebbles, a company based in Columbia that services the Midlands and other parts of the Southeastern United States with custom-made meal experiences.

"As a child, I would always find myself in the kitchen whenever my grandmothers were cooking; however, when I first realized I had a passion was when I would witness the joy that my food gave to people. (Some) started dancing," said Daniel.

She credits the culinary arts training she received at Richland One, as taught by Chef Dwaine Collier, with providing her with a better understanding of her life's calling.

"(I learned) that it's okay to thrive in your talents - that you can turn something that may be a hobby into a complete career," Daniel said.

Daniel is a 2008 graduate of Columbia High School. At Heyward, her coursework included commercial food preparation, menu strategy, table etiquette, customer service and finance. She completed the culinary arts program and went to work. She continued her studies and earned a degree in culinary arts from Trident Technical College in 2012. The same year, Daniel became the owner of Not Your Ordinary (N.Y.O.) Cheesecakes, which offers a variety of flavors of cheesecake including strawberry, candy apple, maple-bacon and key lime. Six years later, she launched It's Chef Pebbles, which bears the nickname coined for her by a childhood friend.

Her signature dish is pan-seared, maple chili-glazed lamb chops with braised green beans and herb-garlic mashed red potatoes with cream sauce. Whether a dinner for large groups or one for just a few, Daniel caters the experience to the needs of the client. She can be reached through Facebook (@itschefpebbles) and Instagram (@chefpebbles), at 803-319-6095 or itschefpebbles@aol.com.

Hospitality and tourism is the number one industry cluster in the state and ranked fifth among the ten fastest-growing professions. The average annual pay in South Carolina for jobs in this field is approximately \$50,000.





CTE COMPLETER SPOTLIGHT

Richland One CTE Completer Engineers His Way to Naval Career and Military Service

His father's advice was to get a business degree and go to work for a major corporation, but David G. Smith chose a different path. Smith, a 2016 graduate of Lower Richland High School, is the U.S. Air Force's Mine-Resistant Ambush Protected (MRAP) production quality lead engineer at the Naval Information Warfare Center (NIWC) Atlantic in Charleston, South Carolina. He is also an officer in the South Carolina Army National Guard Signal Corps, serving one weekend each month and an additional two weeks during the summer.

As a career and technical education (CTE) student in Richland One, Smith completed pre-engineering courses through the Project Lead the Way (PLTW) program, which is a part of the Science, Technology, Engineering and Mathematics (STEM) cluster, and he is glad he did.

"I chose pre-engineering for the job opportunities and to satisfy my eagerness to ask 'why and how,'" said Smith. "I believe the program positively impacts Richland One and beyond Richland One by creating students who are ready and competent for college, the workforce or to be entrepreneurs in today's fast-moving society."

His courses included PLTW Introduction and Principles of Engineering Design where Smith learned computer-aided design (CAD), the industry standard for product development. He also learned digital electronics, which directly translates to his current position at the NIWC. There, he verifies voltages and resistance of systems installed on MRAP vehicles and designs and mounts new physical hardware.

Neither Smith's dreams of becoming a video game programmer or tester nor his father's desire for him to earn a business degree came to fruition, but something far better did happen. Smith says in the PLTW program, he found what he was truly purposed to do.

"My engineering teacher (Elvionna Belin-White) provided an environment for me to learn and grow my interests in engineering and robotics," said Smith. "I am forever grateful for the information she taught."

Smith went on to earn a bachelor's degree in mechanical engineering from the University of South Carolina, where he also worked as an undergraduate researcher. Smith continues to serve as a mentor for the FIRST (For Inspiration and Recognition of Science and Technology) Robotics Competition in Richland One.

Since his employment at the NIWC, Smith has earned certifications in Additive Manufacturing Safety, Markforged Advanced Composites, Quality Inspection and Quality Assurance.

He encourages students who have the slightest interest in engineering to enroll in one of the Richland One CTE pre-engineering programs offered at A.C. Flora, Columbia, Dreher, Lower Richland and W.J. Keenan high schools.

"Look into it and try it," said Smith. "At the very least, there's no downside, only the potential to learn valuable skills and get different certifications."

The average annual earning potential of an entry-level engineer is \$60,080, encompassing the aerospace, industrial, mechanical, and chemical and electrical engineering sectors.

RICHLAND ONE CAREER & TECHNICAL EDUCATION PROGRAMS

Career Cluster: Agriculture, Food & Natural Resources

The Agricultural Education Cluster is designed for high school and middle school students who are interested in pursuing careers in natural resources, environmental and agricultural careers. This cluster includes training for careers in agricultural production, processing, mechanization/engineering, communication/education, marketing/sales, horticulture, forestry, research, and agribusiness.

HORTICULTURE CREDENTIALS

- Plant Science Certification
- Microburst EmployaABILITY Soft Skills Certification
- OSHA 10 General

PLANT AND ANIMAL CREDENTIALS

- Fundamentals of Animal Science
- Microburst EmployaABILITY Soft Skills Certification

PROGRAM LOCATIONS: Heyward Career and Technology Center W.J. Keenan High School



Career Cluster: Architecture & Construction



The Architecture and Construction Cluster introduces students to the construction industry and related career fields in construction management, architecture, building construction inspection, and planning and design. Training in this cluster allows many students to move quickly from basic construction training into estimating and project management that may lead to high-paying jobs.

BUILDING CONSTRUCTION CREDENTIALS

- NCCFR Core
- Microburst EmployaABILITY Soft Skills Certification
- OSHA 10 General

PROGRAM LOCATION:
Heyward Career and Technology Center

Career Cluster: Arts, A/V Technology, Communications



The Arts, A/V Technology and Communications Cluster is designed to introduce students to digital art and design, graphic communications, architectural and mechanical design, media technology and visual arts. The skill standards address what workers need to know and be able to do and contribute to a safe, productive and effective work environment.

MEDIA TECHNOLOGY CREDENTIALS

- Adobe
- Microburst EmployaABILITY Soft Skills Certification
- OSHA 10 General

PROGRAM LOCATIONS:
Heyward Career and Technology Center
W.J. Keenan High School

Career Cluster: Business, Management, Administration

Business, Management, and Administration is one of the fastest-growing and highest-paying sectors of the SC job market. Students studying in this cluster acquire valuable skills in business, finance, organization, time-management, administration and communication; while also building a strong academic foundation in math, science and English.

ADMINISTRATIVE SERVICES CREDENTIALS

- Microburst EmployaABILITY Soft Skills Certification
- OSHA 10 General

BUSINESS INFORMATION CREDENTIALS

- Adobe
- Microburst EmployaABILITY Soft Skills Certification
- OSHA 10 General

GENERAL MANAGEMENT CREDENTIALS

- Adobe
- Microburst EmployaABILITY Soft Skills Certification
- OSHA 10 General

PROGRAM LOCATIONS:

A.C. Flora High School • C.A. Johnson High School • Dreher High School • Eau Claire High School • Heyward Career and Technology Center • W.J. Keenan High School Lower Richland High School



Career Cluster: Education & Training

The Education and Training Cluster prepares learners for careers as educators, administrators, trainers, counselors and other education support services.

South Carolina has developed two high-quality pathways for this cluster: Early Childhood Education and Introduction to Teaching. Students have opportunities to develop knowledge and skills through work-based learning experiences, earn post-secondary credit, and receive industry recognized credentials during their high school careers.

EARLY CHILDHOOD EDUCATION CREDENTIALS

- ParaPro Assessment
- Microburst EmployaABILITY Soft Skills Certification
- OSHA 10 General

TEACHER CADETS

The Teacher Cadet Program is a pre-collegiate program that aims to encourage high school students with exemplary interpersonal and leadership skills to consider teaching as a career. An important secondary goal of the program is to develop future community leaders who will become civic advocates for public education.

PROGRAM LOCATION: Eau Claire High School



Career Cluster: Finance



In the Finance Cluster, students participate in courses to prepare them to become financial managers, work with clients professionally, process banking transactions, recommend insurance, manage retirement funds, work as billing clerks and use accounting software to handle other financial statements and needs.

BANKING SERVICES CREDENTIALS

- Microburst EmployaABILITY Soft Skills Certification
- OSHA 10 General

BUSINESS FINANCE CREDENTIALS

- Microburst EmployaABILITY Soft Skills Certification
- OSHA 10 General

PROGRAM LOCATIONS:
Columbia High School • Dreher High School
Lower Richland High School

Career Cluster: Government & Public Administration



The Government and Public Administration Cluster incorporates career opportunities in planning and performing government functions at all levels: local, state and federal. The South Carolina Department of Education offers two pathways in the Government and Public Administration Career Cluster: Governance and Government Management and Administration. This cluster includes a strong emphasis on the purpose and functions of government and the application of democratic principles in the process of governmental and administrative policymaking.

GOVERNANCE CREDENTIALS

• Leadership Principles 1 & 2 (Precision Exams)

PROGRAM LOCATION: W.J. Keenan High School

Career Cluster: Health Science

Health Science Education is a secondary program of study that promotes health career opportunities to students in grades 9-12. Integration of health science courses, work-based learning experiences, HOSA-Future Health Professionals activities and academics allow students to make informed decisions regarding an array of careers and educational pursuits in health science fields.

BIOMEDICAL SCIENCE CREDENTIALS

- Certified Nurse Aide (CNA)
- Healthcare Providers Basic Life Support (BLS)
- National Health Science Assessment
- Microburst EmployaABILITY Soft Skills Certification
- OSHA 10 General

SPORTS MEDICINE CREDENTIALS

Healthcare Providers Basic Life Support (BLS)

PROGRAM LOCATIONS:

C.A. Johnson High School • Columbia High School Heyward Career and Technology Center Lower Richland High School



Career Cluster: Hospitality & Tourism

Hospitality and Tourism is designed to prepare students for entry-level employment in the hospitality, food, travel and tourism industry. Industry segments focus on such areas as planning, marketing, management, finance, operations, technical and production skills. Additionally, students gain knowledge related to technology, human relations, labor issues, community issues, environmental issues and safety.

CULINARY ARTS MANAGEMENT CREDENTIALS

- ProStart
- ServSafe Food Handler
- ServSafe Manager
- Microburst EmployaABILITY Soft Skills Certification
- OSHA 10 General

HOSPITALITY AND TOURISM MANAGEMENT CREDENTIALS

- Microburst EmployaABILITY Soft Skills Certification
- OSHA 10 General



PROGRAM LOCATIONS:

Heyward Career and Technology Center W.J. Keenan High School • Lower Richland High School

Career Cluster: Human Services



The Human Services/Family and Consumer Sciences Cluster prepares learners for post-secondary credentials and careers in occupations that support the everyday functioning of society and individual well-being. Regardless of the specific area in which they are interested, all Human Services/Family and Consumer Sciences students share a genuine interest in helping people.

BARBER/MASTER HAIR CARE CREDENTIALS

- South Carolina Registered Barber License
- Microburst EmployaABILITY Soft Skills Certification
- OSHA 10 General

COSMETOLOGY CREDENTIALS

- South Carolina Cosmetology License
- Microburst EmployaABILITY Soft Skills Certification
- OSHA 10 General

FAMILY AND CONSUMER SCIENCES CREDENTIALS

- ServSafe Food Handler
- Microburst EmployaABILITY Soft Skills Certification
- OSHA 10 General

HIGH SCHOOL PROGRAM LOCATIONS:

Eau Claire High School • Heyward Career and Technology Center W.J. Keenan High School • Lower Richland High School

MIDDLE SCHOOL PROGRAM LOCATIONS: Hand Middle School • W.G. Sanders Middle School

Career Cluster: Information Technology



Information Technology Cluster includes courses and/or programs related to designing, developing, managing, and operating communication and information technology networks and related hardware and software for the recording, storage, transformation, transmission and distribution of voice, video, images, and data including both telecommunications and computing services. Information Technology careers involve the design, development, support, and management of hardware, software, multimedia, and systems integration services.

NETWORKING SYSTEMS CREDENTIALS

- CompTIA IT Fundamentals
- Microburst EmployaABILITY Soft Skills Certification
- OSHA 10 General

WEB AND DIGITAL COMMUNICATIONS CREDENTIALS

- Adobe
- Microburst EmployaABILITY Soft Skills Certification
- OSHA 10 General

HIGH SCHOOL PROGRAM LOCATION:
A.C. Flora High School • Dreher High School
Heyward Career and Technology Center • Lower Richland High School

MIDDLE SCHOOL PROGRAM LOCATION:
Alcorn Middle School • Crayton Middle School •
Heyward Gibbes Middle School • Hand Middle School
W.A. Perry Middle School • W.G. Sanders Middle School

Career Cluster: Law, Public Safety, Corrections & Security

The Law, Public Safety, Corrections and Security Cluster prepares students for careers in planning, managing and providing legal, public safety, protective and homeland security services, including professional and technical support. Occupations in this cluster include bailiffs, correctional officers, emergency management and response coordinators, firefighters, paralegals, private detectives and investigators. In South Carolina, there are three completer pathways: Emergency and Fire Management Services, Law Enforcement Services and Paralegal Systems Technology.

EMERGENCY AND FIRE MANAGEMENT SERVICES CREDENTIALS

- Basic Auto Extrication (Firefighter)
- Hazardous Material Awareness (Firefighter)
- Hybrid Firefighter I
- Hvbrid Firefighter II
- Microburst EmployaABILITY Soft Skills Certification
- OSHA 10 General

PROGRAM LOCATIONS:

C.A. Johnson High School • Columbia High School Heyward Career and Technology Center Lower Richland High School



Career Cluster: Manufacturing

Manufacturing Education is a program for students interested in pursuing careers in electronics, manufacturing, machine technology, mechatronics, metal fabrication and welding technology. Students learn the skills, industry standards and safety practices to advance in these careers.

MECHATRONICS INTEGRATED TECHNOLOGIES CREDENTIALS

- MSSC (Multiple Areas)
- Microburst EmployaABILITY Soft Skills Certification
- OSHA 10 General

WELDING TECHNOLOGY CREDENTIALS

- AWS
- NCCER Core
- Microburst EmployaABILITY Soft Skills Certification
- OSHA 10 General



PROGRAM LOCATION:
Heyward Career and Technology Center

Career Cluster: Marketing, Sales & Service



The Marketing Cluster is designed for students who are interested in managing and performing wholesaling and retailing services. Students learn skills on how to promote, market and distribute merchandise and products.

MARKETING COMMUNICATIONS CREDENTIALS

- Adobe
- Microburst EmployaABILITY Soft Skills Certification
- OSHA 10 General

PROGRAM LOCATION:
Heyward Career and Technology Center

Career Cluster: Science, Technology, Engineering & Mathematics



The Science, Technology, Engineering, and Mathematics Cluster incorporates career opportunities in all aspects of engineering and engineering technologies. Students are engaged in courses such as Introduction To Engineering Design, Principles of Engineering, Digital Electronics, Computer Integrated Manufacturing, Engineering Design and Development, Aerospace Engineering, Biotechnical Engineering, Civil Engineering and Architecture, Gateway To Technology and Industrial Technology Education. The coursework exposes students to scientific research and development as well as professional and technical services in engineering, including laboratory and testing services.

FOOD SCIENCE CREDENTIALS

- ServSafe Food Handler
- Microburst EmployaABILITY Soft Skills Certification
- OSHA 10 General

PRE-ENGINEERING PLTW CREDENTIALS

- Autodesk Inventor
- Microburst EmployaABILITY Soft Skills Certification
- OSHA 10 General

PROGRAM LOCATIONS:

A.C. Flora High School • C.A. Johnson High School
Columbia High School • Dreher High School
W.J. Keenan High School • Lower Richland High School

Career Cluster: Transportation, Distribution, Logistics

The Transportation, Distribution, and Logistics Cluster incorporates career opportunities in the fields of Automotive Collision, Automotive Technology, Diesel Technology, Small Engine Technology, Warehousing, Material Handling, and Distribution and Logistics. Students in this cluster are engaged in planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water.

AUTOMOTIVE TECHNOLOGY CREDENTIALS

- ASE (Multiple Areas)
- Safety and Pollution Prevention (S/P2)
- Microburst EmployaABILITY Soft Skills Certification
- OSHA 10 General

COMMERCIAL DRIVER'S LICENSE CREDENTIALS

- Commercial Driver's License Permit
- Microburst EmployaABILITY Soft Skills Certification
- OSHA 10 General

DIESEL ENGINE TECHNOLOGY CREDENTIALS

- ASE (Multiple Areas)
- Microburst EmployaABILITY Soft Skills Certification
- OSHA 10 General

PROGRAM LOCATIONS:

Eau Claire High School

Heyward Career and Technology Center





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Permit 611

STAY CONNECTED!

















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