

Career and Technical Education Educator Certification Areas



Division of Career and College Readiness



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Maryland State Department of Education

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Maryland Career and Technical Education (CTE) Teacher Certification Areas

Introduction

Career and Technical Education (CTE) prepares students for immediate entry into the workforce and/or postsecondary education. There are over 50 CTE programs of study that address Maryland’s current and future workforce needs. Each program of study requires educators that possess the skill and knowledge to prepare students for careers in identified programs of study. The purpose of this document is to identify educator certification areas for each CTE program of study.

The Maryland educator certification process verifies that educators have the qualifications and appropriate training to execute their professional responsibilities. There are eight types of Maryland certifications outlined in [Table 1](#).

Table 1: Certification Types

Certification Type	Validity Period	Code of Maryland Regulation
Professional Eligibility Certificate	5 Years	13A.12.01.06
Standard Professional Certificate I	5 Years	13A.12.01.06
Standard Professional Certificate II	5 Years	13A.12.01.06
Advanced Professional Certificate	5 Years	13A.12.01.06
Resident Teacher Certificate	2 Years	13A.12.01.07
Conditional Certificate	2 Years	13A.12.01.08
Adjunct Certificate	1 Year	13A.12.01.08-1
Emergency Certificate – Issued during a state of emergency at the authorization of the State Superintendent of Schools	Valid for up to six months after state of emergency is lifted	13A.12.01.14

Each type of certification includes a certification area. The certification area identifies the content that the educator is qualified to teach or lead. Certification areas are divided into the following categories: Early Childhood/Elementary; Middle School (grades 4-9); General Secondary Content Areas (grades 7-12); Special Education; Specialty Areas (grade PreK-12); Administrative or Supervisory Areas; and Specialist Areas. Each category is subdivided into specific content areas. CTE programs of study include content from multiple disciplines. As a result, there are several certification areas that would qualify a teacher to facilitate instruction in CTE.

This document identifies certification areas that would qualify a teacher to facilitate instruction in specific CTE programs of study. The document is organized by career cluster. Each career cluster contains a brief description of the cluster and a table that identifies the CTE program of study, certification areas that will allow teachers to facilitate instruction for the CTE program, and Code of Maryland Regulation where additional information can be found. Some CTE programs of study require teachers to have a specific industry credential in order for students to earn their industry certification.

Maryland Career and Technical Education (CTE) Teacher Certification Areas

The tables in this document identify programs of study that require facilitation of instruction by an industry-certificated teacher. Some CTE programs of study require teachers to participate in specific professional learning experiences. It is beyond the scope of this document to identify all required professional learning experiences. Local directors of CTE will receive a list of professional learning opportunities for CTE teachers annually from the Division of Career and College Readiness.

A comprehensive overview of educator certification in Maryland is located on the Division of Educator Certification and Program Approval, [Educator Certification webpage](http://www.marylandpublicschools.org/about/Pages/DEE/Certification/index.aspx) (<http://www.marylandpublicschools.org/about/Pages/DEE/Certification/index.aspx>).

Maryland Career and Technical Education (CTE) Teacher Certification Areas

Arts, Media, and Communication

Maryland offers great opportunities for careers in arts, media, and communication. Students interested in this cluster combine creative abilities with technical skills and knowledge that prepare them for careers in: Digital Media Production, Graphic Communications, Web Design, Interactive Media, and Game Design. Maryland CTE programs include a focus on communication, graphic communication, and multimedia production. Students can earn industry certifications and college credit toward advanced study in their career field of interest.

CTE Program of Study	Certification Area Options and Code of Maryland Regulation (COMAR)
Graphic Communications (PrintED)	<ul style="list-style-type: none">• Professional and Technical Education – COMAR 13A.12.02.15• Computer Science – COMAR 13A.12.02.06• Marketing - COMAR 13A.12.02.06• Specialty Area: Art – COMAR 13A.12.02.18
Interactive Media Production	<ul style="list-style-type: none">• Professional and Technical Education – COMAR 13A.12.02.15• Computer Science – COMAR 13A.12.02.06• Specialty Area: Art – COMAR 13A.12.02.18

Maryland Career and Technical Education (CTE) Teacher Certification Areas

Business Management and Finance

The Business Management and Finance career cluster focuses on financial services, accounting and finance, marketing, business management, and business administrative support. These programs include options for students to earn industry certifications and college credit in a business-related career field. Students have the opportunity to take the College-Level Examination Program (CLEP) test in the areas of Financial Accounting, Principles of Management, and Principles of Marketing. The Advanced Placement (AP) Economics course is encouraged as a part of each program.

CTE Program of Study	Certification Area Options and Code of Maryland Regulation (COMAR)
Business Management	<ul style="list-style-type: none">Professional and Technical Education – COMAR 13A.12.02.15Business Education – COMAR 13A.12.02.06Mathematics - COMAR 13A.12.02.06
Accounting and Finance	<ul style="list-style-type: none">Professional and Technical Education – COMAR 13A.12.02.15Business Education – COMAR 13A.12.02.06Mathematics - COMAR 13A.12.02.06
Academy of Finance (NAF)	<ul style="list-style-type: none">Professional and Technical Education – COMAR 13A.12.02.15Business Education – COMAR 13A.12.02.06Mathematics - COMAR 13A.12.02.06
Marketing	<ul style="list-style-type: none">Professional and Technical Education – COMAR 13A.12.02.15Business Education – COMAR 13A.12.02.06Marketing - COMAR 13A.12.02.06
Business Administrative Service	<ul style="list-style-type: none">Professional and Technical Education – COMAR 13A.12.02.15Business Education – COMAR 13A.12.02.06

Maryland Career and Technical Education (CTE) Teacher Certification Areas

Construction and Development

Advances in science and technology will continue to drive innovation in the design, construction, and maintenance of buildings. These advances will also impact infrastructure systems, including new design concepts, construction materials and methods and the application of information technology. Maryland high school construction-related programs allow students to advance their knowledge in design, construction management, or construction trades professions.

CTE Program of Study	Certification Area Options and Code of Maryland Regulation (COMAR)
Construction Design and Management	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Technology Education – COMAR 13A.12.02.06
Construction Trades Professions: Masonry	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Technology Education – COMAR 13A.12.02.06
Construction Trades Professions: Carpentry	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Technology Education – COMAR 13A.12.02.06
Construction Trades Professions: Electrical	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Technology Education – COMAR 13A.12.02.06
Construction Trades Professions: Plumbing	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Technology Education – COMAR 13A.12.02.06
Construction Maintenance Professions: Industrial Maintenance	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Technology Education – COMAR 13A.12.02.06
Construction Maintenance Professions: Heating, Ventilation, and Air Conditioning (HVAC)	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Technology Education – COMAR 13A.12.02.06
Construction Maintenance Professions: Welding	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Technology Education – COMAR 13A.12.02.06

Maryland Career and Technical Education (CTE) Teacher Certification Areas

Consumer Services, Hospitality, and Tourism

Programs in consumer services, hospitality, and tourism prepare students for a variety of career options. Each program includes options for students to earn industry certifications and/or college credit in a career field of interest. Students who pursue programs in culinary arts, restaurant management, lodging management, or cosmetology engage in real-world experiences through internships and mentoring opportunities. These options allow students to apply their classroom instruction in meaningful ways and they give them (through licensure or certification) a jump start into the profession.

CTE Program of Study	Certification Area Options and Code of Maryland Regulation (COMAR)
Careers in Cosmetology	<ul style="list-style-type: none">Professional and Technical Education – COMAR 13A.12.02.15 Teachers must possess a current and valid Maryland Senior Cosmetology license.
Culinary Arts (American Culinary Federation)	<ul style="list-style-type: none">Professional and Technical Education – COMAR 13A.12.02.15Family and Consumer Science – COMAR 13A.12.02.06
Baking and Pastry Arts (American Culinary Federation)	<ul style="list-style-type: none">Professional and Technical Education – COMAR 13A.12.02.15Family and Consumer Science – COMAR 13A.12.02.06
Food and Beverage Management (ProStart)	<ul style="list-style-type: none">Professional and Technical Education – COMAR 13A.12.02.15Family and Consumer Science – COMAR 13A.12.02.06
Hospitality and Tourism Management	<ul style="list-style-type: none">Professional and Technical Education – COMAR 13A.12.02.15Family and Consumer Science – COMAR 13A.12.02.06Business Education – COMAR 13A.12.02.06

Maryland Career and Technical Education (CTE) Teacher Certification Areas

Environmental, Agricultural, and Natural Resources

The agricultural sector is a highly competitive industry creating new challenges in identifying global and domestic markets; improving business planning, financing, risk management, and productivity; and reducing costs. Advances in science and technology, in particular biotechnology, will continue to drive innovation and growth in this Career Cluster. Growing public concerns over natural resources, environmental quality, and public health will continue to expand the role and scope of the natural resource management and environmental services sectors.

CTE Program of Study	Certification Area Options and Code of Maryland Regulation (COMAR)
Curriculum for Agricultural Sciences Education (CASE) – Animal Systems	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Agriculture – COMAR 13A.12.02.06 • Biology – COMAR 13A.12.02.06 • Environmental Science - COMAR 13A.12.02.06 <p>Teacher must be trained on CASE course curricula.</p>
Curriculum for Agricultural Sciences Education (CASE) – Plant Systems	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Agriculture – COMAR 13A.12.02.06 • Biology – COMAR 13A.12.02.06 • Environmental Science - COMAR 13A.12.02.06 <p>Teacher must be trained on CASE course curricula.</p>
Curriculum for Agricultural Sciences Education (CASE) – Natural Resources and Ecology	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Agriculture – COMAR 13A.12.02.06 • Biology – COMAR 13A.12.02.06 • Environmental Science - COMAR 13A.12.02.06 <p>Teacher must be trained on CASE course curricula.</p>
Curriculum for Agricultural Sciences Education (CASE) – Agriculture Power and Technology	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Agriculture – COMAR 13A.12.02.06 • Biology – COMAR 13A.12.02.06 • Environmental Science - COMAR 13A.12.02.06 <p>Teacher must be trained on CASE course curricula.</p>
Horticultural Services	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Agriculture – COMAR 13A.12.02.06 • Biology – COMAR 13A.12.02.06 • Environmental Science - COMAR 13A.12.02.06 <p>At least one teacher must possess the Certified Professional Horticulturist credential.</p>

Maryland Career and Technical Education (CTE) Teacher Certification Areas

Health and Biosciences

CTE programs in the Health and Biosciences Cluster focus on preparing dedicated professionals with the knowledge and skills necessary to pursue challenging and rewarding careers and further education. Health and bioscience careers are among the fastest growing and highest in demand in the country as the population ages and health care needs continue to increase. CTE programs in this career cluster prepare students for positions in direct patient care settings and research and laboratory facilities, as well as for opportunities in business and management related to health care.

CTE Program of Study	Certification Area Options and Code of Maryland Regulation (COMAR)
Academy of Health Professions - Certified Nursing Assistant (CNA)	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Biology – COMAR 13A.12.02.06 <p>At least one teacher in the CTE program must have a valid Registered Nurse license.</p>
Academy of Health Professions - Pharmacy Technician	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Biology – COMAR 13A.12.02.06
Academy of Health Professions - Dental Assisting	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Biology – COMAR 13A.12.02.06
Academy of Health Professions - Clinical Medical Assistant	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Biology – COMAR 13A.12.02.06
Academy of Health Professions - Physical Rehabilitation	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Biology – COMAR 13A.12.02.06 • Health– COMAR 13A.12.02.18 • Physical Education - COMAR 13A.12.02.18
Academy of Health Professions - Allied Health Other Specialty	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Biology – COMAR 13A.12.02.06 • Health– COMAR 13A.12.02.18 • Physical Education - COMAR 13A.12.02.18
Project Lead the Way Biomedical Science	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Biology – COMAR 13A.12.02.06

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Human Resource Services

Advances in scientific knowledge and increased public awareness of social problems and issues are contributing to a demand for high-quality social services. Public concerns over crime and the increased demand for legal intervention in businesses and communities will continue to drive the growth of law enforcement, emergency services and legal services. The continuous need for professionals in education fields, especially in the critical shortage areas, offers creative ways to engage young people early on in the teaching profession.

CTE Program of Study	Certification Area Options and Code of Maryland Regulation (COMAR)
Emergency Services Training/ High School Cadet (MFRI)	<ul style="list-style-type: none"> Professional and Technical Education – COMAR 13A.12.02.15
Teacher Academy of Maryland	<ul style="list-style-type: none"> Any certification listed in Certification in General Secondary Content Areas -COMAR 13A.12.02.06 Any certification listed in Certification in Specialty Areas – COMAR 13A.12.02.18 <p>Teacher must be trained on TAM course curricula.</p>
Homeland Security & Emergency Preparedness – Information/ Communications Technology	<ul style="list-style-type: none"> Professional and Technical Education – COMAR 13A.12.02.15 Biology – COMAR 13A.12.02.06 Chemistry – COMAR 13A.12.02.06 Computer Science - COMAR 13A.12.02.06 Environmental Science - COMAR 13A.12.02.06 Geography - COMAR 13A.12.02.06 Mathematics - COMAR 13A.12.02.06 Technology Education - COMAR 13A.12.02.06
Homeland Security & Emergency Preparedness - Homeland Security Sciences	<ul style="list-style-type: none"> Professional and Technical Education – COMAR 13A.12.02.15 Biology – COMAR 13A.12.02.06 Chemistry – COMAR 13A.12.02.06 Environmental Science - COMAR 13A.12.02.06
Homeland Security & Emergency Preparedness - Criminal Justice/Law Enforcement Pathway	<ul style="list-style-type: none"> Professional and Technical Education – COMAR 13A.12.02.15 Biology – COMAR 13A.12.02.06 History - COMAR 13A.12.02.06 Social Studies – COMAR 13A.12.02.13

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CTE Program of Study	Certification Area Options and Code of Maryland Regulation (COMAR)
Early Childhood Education (ECE), Infants/Toddler Child Development Associate (CDA)	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Early Childhood Education – COMAR 13A.12.02.03 • Family and Consumer Science – COMAR 13A.12.02.06 <p>Teacher must be trained on ECE/CDA course curricula.</p>
Early Childhood Education (ECE), Preschool Child Development Associate (CDA)	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Early Childhood Education – COMAR 13A.12.02.03 • Family and Consumer Science – COMAR 13A.12.02.06 <p>Teacher must be trained on ECE/CDA course curricula.</p>
Junior Reserve Officers' Training Corps (JROTC) - Navy	JROTC instructors must meet requirements established by the United States Department of Defense.
JROTC - Army	JROTC instructors must meet requirements established by the United States Department of Defense.
JROTC - Marines	JROTC instructors must meet requirements established by the United States Department of Defense.
JROTC - Air Force	JROTC instructors must meet requirements established by the United States Department of Defense.

Maryland Career and Technical Education (CTE) Teacher Certification Areas

Information Technology

Information Technology (IT) professionals have the skills to determine customer and business needs and requirements, manage complex projects, and integrate software and hardware solutions. Maryland CTE programs include opportunities for students to focus on software development, programming, IT hardware and networking technologies. Cyber Security is an increasingly important part of IT programs and represents expanding opportunities for employment and advanced education and training in Maryland.

CTE Program of Study	Certification Area Options and Code of Maryland Regulation (COMAR)
Database Academy (Oracle) - Java Programming	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Business Education – COMAR 13A.12.02.06 • Computer Science – COMAR 13A.12.02.06 • Mathematics – COMAR 13A.12.02.06 • Technology Education - COMAR 13A.12.02.06
Database Academy (Oracle) - Database Management	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Business Education – COMAR 13A.12.02.06 • Computer Science – COMAR 13A.12.02.06 • Mathematics – COMAR 13A.12.02.06 • Technology Education - COMAR 13A.12.02.06
Project Lead the Way (PLTW) Computer Science	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Business Education – COMAR 13A.12.02.06 • Computer Science – COMAR 13A.12.02.06 • Mathematics – COMAR 13A.12.02.06 • Technology Education - COMAR 13A.12.02.06
Mobil Applications and Software Development (Apple Swift)	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Business Education – COMAR 13A.12.02.06 • Computer Science – COMAR 13A.12.02.06 • Mathematics – COMAR 13A.12.02.06 • Technology Education - COMAR 13A.12.02.06

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CTE Program of Study	Certification Area Options and Code of Maryland Regulation (COMAR)
IT Networking Academy CISCO - Networking	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Business Education – COMAR 13A.12.02.06 • Computer Science – COMAR 13A.12.02.06 • Mathematics – COMAR 13A.12.02.06 • Technology Education - COMAR 13A.12.02.06
IT Networking Academy CISCO – Infrastructure and Automation	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Business Education – COMAR 13A.12.02.06 • Computer Science – COMAR 13A.12.02.06 • Mathematics – COMAR 13A.12.02.06 • Technology Education - COMAR 13A.12.02.06
IT Networking Academy CISCO - Security	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Business Education – COMAR 13A.12.02.06 • Computer Science – COMAR 13A.12.02.06 • Mathematics – COMAR 13A.12.02.06 • Technology Education - COMAR 13A.12.02.06
IT Networking Academy CISCO – Artificial Intelligence and Data Analysis	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Business Education – COMAR 13A.12.02.06 • Computer Science – COMAR 13A.12.02.06 • Mathematics – COMAR 13A.12.02.06 • Technology Education - COMAR 13A.12.02.06
IT Networking Academy CISCO – Operating Systems	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Business Education – COMAR 13A.12.02.06 • Computer Science – COMAR 13A.12.02.06 • Mathematics – COMAR 13A.12.02.06 • Technology Education - COMAR 13A.12.02.06
IT Networking Academy CISCO - Programming	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Business Education – COMAR 13A.12.02.06 • Computer Science – COMAR 13A.12.02.06 • Mathematics – COMAR 13A.12.02.06 • Technology Education - COMAR 13A.12.02.06

Maryland Career and Technical Education (CTE) Teacher Certification Areas

Manufacturing, Engineering, and Technology

Programs in the Manufacturing, Engineering, and Technology Cluster prepare students for a variety of career areas, including opportunities to become engineers, engineering technologists, or technicians. Students engage in real-world projects that strengthen their understanding of science, technology, engineering, and mathematics (STEM). By completing challenging projects related to design, manufacturing process applications and quality improvements, they are being educated for the high-performance workplace using advanced technologies. To remain internationally competitive, employers need employees who can develop and use new technologies that will continuously improve the quality of life for Marylanders.

CTE Program of Study	Certification Area Options and Code of Maryland Regulation (COMAR)
Project Lead the Way Engineering	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Computer Science – COMAR 13A.12.02.06 • Mathematics – COMAR 13A.12.02.06 • Technology Education - COMAR 13A.12.02.06
Manufacturing Engineering Technology National Institute of Metal Working Skills (NIMS) - Machining Operations	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Technology Education - COMAR 13A.12.02.06
Manufacturing Engineering Technology (NIMS) - CNC Programming and Operations	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Technology Education - COMAR 13A.12.02.06
Manufacturing Engineering Technology (NIMS) – Machining/CNC Programming and Operations	<ul style="list-style-type: none"> • Professional and Technical Education – COMAR 13A.12.02.15 • Technology Education - COMAR 13A.12.02.06

Maryland Career and Technical Education (CTE) Teacher Certification Areas

Transportation Technologies

Advances in science and engineering are producing significant innovations in transportation technology, resulting in faster movement of people and goods at lower costs and with less environmental and safety risks. These innovations require higher-level skills to manage and maintain transportation equipment. CTE programs provide opportunities for students to prepare for careers in the automotive industry.

CTE Program of Study	Certification Area Options and Code of Maryland Regulation (COMAR)
Automotive Technology Maintenance and Light Repair-Plus (ASE)	<ul style="list-style-type: none">Professional and Technical Education – COMAR 13A.12.02.15 Teachers must have or be working towards earning an Automotive Service Excellence (ASE) Certification.
Autobody/ Collision Repair Technician	<ul style="list-style-type: none">Professional and Technical Education – COMAR 13A.12.02.15 Teachers must have or be working towards earning an Automotive Service Excellence (ASE) Certification.
Medium/Heavy Truck Technician- Diesel (NATEF)	<ul style="list-style-type: none">Professional and Technical Education – COMAR 13A.12.02.15 Teachers must have or be working towards earning an Automotive Service Excellence (ASE) Certification.

Maryland Career and Technical Education (CTE) Teacher Certification Areas

Work-based Learning

Supervised work-based learning allows high school students on-the-job experiences related to their career choice. Students may also elect to complete work-based learning through participation in a CTE program, Career Research and Development (CRD), or through the Apprenticeship Maryland Program (AMP). The programs are designed to link instruction with specific work experiences. These linked learning experiences are organized around a plan that is cooperatively developed by the student, a work-based learning coordinator, and an employer to add value to and extend a student’s career preparation. Students in CRD or AMP can be placed in positions related to any of Maryland’s Career Clusters.

CTE Program of Study	Certification Area Options and Code of Maryland Regulation (COMAR)
Career and Research Development	<ul style="list-style-type: none"> • Work-based Learning Coordinator – COMAR 13A.12.0216 • School Counselor – COMAR 13A.12.03.02 • Any Maryland certificated CTE teacher for the identified career area • Career and Technical Education Director – COMAR 13A.12.04.04
Apprenticeship	<ul style="list-style-type: none"> • Work-based Learning Coordinator – COMAR 13A.12.0216 • School Counselor – COMAR 13A.12.03.02 • Any Maryland certificated CTE teacher for the identified career area • Career and Technical Education Director – COMAR 13A.12.04.04

Appendix A: Career Cluster Points of Contact

Each career cluster is led by staff in the Division of Career and College Readiness. Questions about programs of study within a career cluster may be directed to the appropriate cluster lead(s).

1. Art, Media, and Communication

- Marquita Friday, Director of Career Programs - Marquita.Friday@Maryland.gov
- Jennifer Griffin, Career Programs and Apprenticeship Specialist - Jennifer.Griffin@Maryland.gov

2. Business Management and Finances

- China Wilson, Equity and Civil Rights Compliance Specialist - china.wilson@maryland.gov

3. Consumer Service, Hospitality, and Tourism

- Marquita Friday, Director of Career Programs - Marquita.Friday@Maryland.gov

4. Construction and Development

- Charles (Chuck) Wallace, Coordinator of Career Programs and Student Organizations - Charles.Wallace@Maryland.gov

5. Environmental, Agriculture, and Natural Resources

- Dean Kendall, Career Programs and Grants Specialist - Dean.Kendall@Maryland.gov

6. Health and Bioscience

- Charles (Scott) Nichols, Charles.Nichols@Maryland.gov
- Barbara Poindexter-Webb, Career Programs and Grants Specialist - Barbara.poindexter-webb1@maryland.gov

7. Human Resource Services

- Traci Verzi, Coordinator of Finance and Legislation for Career Programs - Traci.Verzi@Maryland.gov
- Kellise Williamson, Career Programs and Early College Specialist - kellise.williamson@maryland.gov

8. Information Technology

- Marquita Friday, Director of Career Programs - Marquita.Friday@Maryland.gov
- Charles (Scott) Nichols, Coordinator of Career Programs, STEM, and Computer Science - Charles.Nichols@Maryland.gov

Maryland Career and Technical Education (CTE) Teacher Certification Areas

9. Manufacturing, Engineering, and Technology

- Marquita Friday, Director of Career Programs Marquita.Friday@Maryland.gov
- Charles (Scott) Nichols, Acting Coordinator of Career Programs, STEM, and Computer Science - Charles.Nichols@Maryland.gov

10. Transportation Technologies

- Charles (Chuck) Wallace, Coordinator of Career Programs and Student Organizations - Charles.Wallace@Maryland.gov

Work-based Learning

All CTE programs of study must provide the opportunity for students to engage in work-based learning experiences, including apprenticeships. The point of contact for work-based learning is:

- Jennifer Griffin Jennifer.Griffin@Maryland.gov

Maryland Career and Technical Education (CTE) Teacher Certification Areas

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