

CAREER-TECHNICAL TRANSFER ASSURANCE GUIDES



Career-Technical Transfer Assurance Guides (CTAGs)

Collaboration among the Ohio Department of Higher Education, the Ohio Department of Education, and other key stakeholders led to the development of policies and procedures to create statewide career-technical discipline-specific articulation agreements and further ensure that students completing coursework at an adult or high school career-technical institution can articulate and transfer agreed-upon technical courses/programs to any Ohio public institution of higher education and among Ohio public institutions of higher education "without unnecessary duplication or institutional barriers." Career-Technical Assurance Guides (CTAGs) are statewide articulation agreements that guarantee the recognition of learning which occurs at public adult and high school career-technical institutions and has the opportunity for the award of college credit toward technical courses/programs at any public higher education institution. CTAGs serve as advising tools, identifying the statewide content guarantee and describing other conditions or obligations (e.g., program accreditation or industry credential) associated with the guarantee. To be awarded CTAG credit at Tri-C, students must confirm that the College offers a degree program in their career-technical field. Learn more about CTAG Credit.

Career-Technical Articulation Number (CTAN)

A CTAN consists of learning outcomes representing knowledge and skills in a technical area that are needed to transition from Ohio public career-technical education to an Ohio public institution of higher education. Learning outcomes are based on recognized industry standards in the technical area and are established by faculty panels comprised of subject area experts from across Ohio's public institutions of higher education. Each CTAN in the technical area is assigned an identifying number. Learn more about CTAGs/CTANs and/or see Tri-C's approved courses below.

Administrative and Professional Support

CTAPS001

Office Procedures

BT-2990

3 Cr.

Student Requirements:

Student must matriculate to an institution of higher education with an approved or comparable program within 3 years after completing the approved secondary program. Student must successfully complete the Ohio Department of Education (ODE) secondary course Office Management (142005) and earn a qualifying score of 54 or higher on the corresponding End of Course examination.

Automotive Technology

CTAUT005 AUTO-1101 3 Cr.

Introduction to Automotive Service and Repair

Student Requirements for Secondary Students: Student must successfully complete the Ohio Department of Education (ODE) secondary course Ground Transportation Maintenance (177000). Student must pass the ASE/NATEF Student Certification Examination for Maintenance and Light Repair (MLR) or Automobile Service and Technology (AST) and seek credit within three years from the date the examination was taken, or within the currency of the industry certificate.

Student Requirements for Adult Career-Technical Students*: Student must successfully complete a NATEF accredited program at a (CT)2 approved Ohio adult career-technical institution. Student must pass the ASE/NATEF Student Certification Examination for Maintenance and Light Repair (MLR) or Automobile Service and Technology (AST) and seek credit within three years from the date the examination was taken, or within the currency of the industry certificate.

*Adult Career-Technical Students who possess a current ASE Maintenance and Light Repair (G1) certification are also eligible to

receive credit for this CTAN.

Clinical/Medical Laboratory Technology

CTMLT001 MLT-1000 3 Cr.

Introduction to Medical (Clinical) Laboratory Science

Student Requirements: Student must matriculate to an institution of higher education with an approved or comparable program within 3 years after completing the approved secondary program. Student must successfully complete the Ohio Department of Education (ODE) secondary course Clinical Laboratory Techniques (072100) and earn a qualifying score of 65 or higher on the End of Course examination.

Construction Technology

CTCON001 CNST-1731 3 Cr.

Plan Reading

Student Requirements: Student must matriculate to an institution of higher education with an approved or comparable program within 3 years after completing the approved secondary program. Student must successfully complete the Ohio Department of Education (ODE) secondary course Plan Reading (178019) and receive a qualifying score of 64 or higher on the End of Course examination.

CTCON002 CNST-1750 3 Cr.
 Construction Safety

Student Requirements:
 Student must matriculate to an institution of higher education with an approved or comparable program within 3 years after completing the approved secondary program. Student must successfully complete the Ohio Department of Education (ODE) secondary course Construction Safety (178018) and earn a qualifying score of 64 or higher on the corresponding End of Course examination. Student must obtain a valid OSHA 30 hour card in general construction.

CTCON003 CNST-2131 3 Cr.
 Construction Methods and Materials

Student Requirements:
 Student must matriculate to an institution of higher education with an approved or comparable program within 3 years after completing the approved secondary program. Student must successfully complete the Ohio Department of Education (ODE) secondary course Carpentry and Masonry Technical Skills (178001) and earn a qualifying score of 75 or higher on the End of Course examination.

PLEASE NOTE:
 This CTAN is an approved OAN in the Civil/Construction Engineering Technology TAG. The number and title are OET016 - Construction Methods and Materials.

Criminal Justice

CTCJ001 CJ-1000 3 Cr.
Introduction to Criminal
Justice

Student Requirements:
Student must matriculate to an institution of higher education with an approved or comparable program within 3 years after completing the approved secondary program. Student must successfully complete all three required Ohio Department of Education (ODE) courses and receive a qualifying score on the End of Course examinations:
Course 1: The American Criminal Justice System (170911), qualifying score of 47 or higher
Course 2: Police Work and Practice in Public Safety (170913), qualifying score of 56 or higher
Course 3: The Correctional System and Services (170915), qualifying score of 60 or higher.

PLEASE NOTE: This CTAN is an approved OAN in the Social and Behavioral Sciences TAG. The number and title are OSS031 - Introduction to Criminal Justice.

Education

CTEDU007 EDUC-1011 3 Cr.
Introduction to
Education

Student Requirements:
Student must matriculate to an institution of higher education with an approved or comparable program within 3 years after completing the approved secondary program Student must successfully complete Ohio Department of Education (ODE) secondary course Education Principles (350010) and earn a qualifying score of 68 or higher* on the End of Course examination.

*Exam score represents a combined score on the End of Course exam and the required portfolio.

PLEASE NOTE: This CTAN is an approved OAN in the Education TAG. The number and title are OED007 - Introduction to Education.

Education, Early Childhood Education

CTECE003 ECED-2500 3 Cr.
Infant and Toddler
Curriculum

Student Requirements:

Student must matriculate to an institution of higher education with an approved or comparable program within 3 years after completing the approved secondary program. Student must successfully complete Ohio Department of Education (ODE) secondary course Infant and Toddler Education (350210) through an approved secondary program and earn a qualifying score of 57 or higher on the End of Course examination.

Engineering, Electrical Engineering Technology

CTEET001 EET-1161 3 Cr.
DC Circuits

Student Requirements for Secondary Students: Student must matriculate to an institution of higher education with an approved or comparable program within 3 years of completing the approved secondary program. Student must successfully complete Ohio Department of Education (ODE) course DC Electronic Circuits (175105) with a qualifying score of 61 or higher on the End of Course examination. Student must include proof of laboratory component with their submission. Student must complete the pre-requisite requirement for College Algebra at the matriculating institution. Student will not receive post-secondary credit for DC Circuits until this pre-requisite is satisfied.

Student Requirements for Adult Career-Technical Students: Student must successfully complete an approved Electronics (CT)2 program at an Ohio Technical Center. Student must complete the pre-requisite requirement for College Algebra at the matriculating institution. Student will not receive credit for DC Circuits until this pre-requisite is satisfied.

PLEASE NOTE: This CTAN is an approved OAN in the Electrical

Engineering Technology TAG. The number and title are OET001 - DC Circuits.

CTEET002 EET-1241 3 Cr.
Digital Electronics

Student Requirements for Secondary Students: Student must matriculate to an institution of higher education with an approved or comparable program within 3 years of completing the approved secondary program. Student must successfully complete the Ohio Department of Education (ODE) course Digital Electronics (175007) with a score of 56 or higher on the End of Course examination. Student must include proof of laboratory component with their submission.

PLEASE NOTE: This CTAN is an approved OAN in the Electrical Engineering Technology TAG. The number and title are OET002 - Digital Electronics.

CTEET003 EET-2520 3 Cr.
 Programmable Logic
 Controllers

Student Requirements
 for Secondary
 Students: Student
 must matriculate
 to an institution of
 higher education
 with an approved or
 comparable program
 within 3 years of
 completing the
 approved secondary
 program. Student must
 successfully complete
 Ohio Department of
 Education (ODE) Course
 Industrial Robotics
 (176025). Student
 must include proof of
 laboratory component
 with their submission.

Student Requirements
 for Adult Career-
 Technical Students:
 Student must
 successfully complete
 an approved (CT)2
 program at an Ohio
 Technical Center.

PLEASE NOTE: This
 CTAN is an approved
 OAN in the Electrical
 Engineering Technology
 TAG. The number
 and title are OET022 -
 Programmable Logic
 Controllers.

Engineering, Mechanical Engineering Technology

CTMET004 MET-1240 3 Cr.
 Manufacturing
 Processes

Student Requirements:
 Student must
 matriculate to an
 institution of higher
 education with
 an approved or
 comparable
 course no later
 than 3 years after
 completing the
 approved secondary
 program. Student must
 successfully complete
 Ohio Department
 of Education (ODE)
 course Manufacturing
 Operations (175003).
 Student must earn
 a passing score on
 the end of course
 exam. The score will
 be determined at the
 conclusion of field-
 testing at the end of the
 2019-2020 academic
 year.

PLEASE NOTE: This
 CTAN is an approved
 OAN in the Mechanical
 Engineering Technology
 TAG. The number
 and title are OET010
 - Manufacturing
 Processes.

CTMET005	MET-2041	3 Cr.
Computer Aided Design/Drafting (CADD)		
<p>Student Requirements: student must matriculate to an institution of higher education with an approved or comparable program within 3 years of completing the approved program. Student must successfully complete the Ohio department of Education (ODE) course Computer Integrated Manufacturing (175006) from an approved program and earn a qualifying score of 60 or higher on the End of Course examination.</p> <p>PLEASE NOTE: This CTAN is an approved OAN in the Mechanical Engineering Technology TAG. The number and title are OET012 - Computer Aided Drafting/Design (CADD).</p>		

Emergency Medical Services

CTEMS002	EMT-1302 & EMT-130L	6 Cr. & 1 Cr.
Emergency Medical Technician (EMT)		
<p>Student Requirements: Student must hold a current Ohio EMT Certification. Student must include proof of laboratory and clinical components with their submission.</p>		
CTEMS004	EMT-1310 & EMT-2330 & EMT-2340 & EMT-2350 & EMT-2360 & EMT-2371	1 Cr. & 6 Cr. & 6 Cr. & 6 Cr. & 5 Cr.
Paramedic		
<p>Student Requirements: Student must hold a current Ohio Paramedic Certification. Student must include proof of laboratory and clinical components with their submission.</p>		

Entrepreneurship

CTENTR001	BADM-1301	3 Cr
Introduction to Entrepreneurship		
<p>Student Requirements: Student must matriculate to an institution of higher education with an approved or comparable program within 3 years of graduating from an approved career-technical education institution. Student must successfully complete the Ohio Department of Education (ODE) secondary course Strategic Entrepreneurship (141030) and earn a qualifying score of 56 or higher on the End of Course examination.</p>		

Exercise Science

CTES001	SES-1001	2 Cr
Introduction to Exercise Science		
<p>Student Requirements: Student must matriculate to an institution of higher education with an approved or comparable program within 3 years after completing the approved secondary program. Student must successfully complete Ohio Department of Education (ODE) secondary course Exercise and Athletic Training (072000) and earn a qualifying score of 56 or higher on the End-of-Course examination.</p>		

CTES002 PE-1000 2 Cr.
 Fitness and Health Foundations

Student Requirements:
 Student must matriculate to an institution of higher education with an approved or comparable program within 3 years after completing the approved secondary program. Student must successfully complete Ohio Department of Education (ODE) secondary course Fitness Evaluation and Assessment (072020) and earn a qualifying score of 61 or higher on the End-of-Course examination.

Firefighter

CTFF002 FIRE-1100 & FIRE-1200 3 Cr. & 2 Cr. & 2 Cr.
 Firefighter I & FIRE-1500

Student must hold current and valid Ohio Firefighter I Certification; Required NIMS 100 and 700

CTFF003 FIRE-1100 & FIRE-1200 3 Cr. & 2 Cr. & 2 Cr. & 2 Cr.
 Firefighter II & FIRE-1500 & FIRE-2321 & EMT-1320

Student must hold current and valid Ohio Firefighter I and II Certifications or Ohio Firefighter II Certification. Student must complete training courses offered by an Ohio public career-technical institution (secondary or adult) or public college or university.

Graphics

CTGRPH002 VC-1431 3 Cr.
 Vector Graphics

Student Requirements:
 Student must matriculate to an institution of higher education with an approved or comparable program within 3 years after completing the approved secondary program. Student must successfully complete Ohio Department of Education (ODE) course Multimedia and Image Management Techniques (145105) and earn a qualifying score of 60 or higher on the End of Course examination; or successfully complete ODE course Visual Distribution (340330) and earn a qualifying score of 38 or higher on the End of Course examination.

This class will utilize Adobe Illustrator (most current version available).

Health Information Management

CTHIM001 HIM-1301 3 Cr.
 Introduction to Health Information Management

Student Requirements:
 Student must matriculate to an institution of higher education with an approved or comparable program NO LATER than 3 years after completing the approved secondary program. Student must successfully complete Ohio Department of Education (ODE) course Health Information Technology (072135) and earn a qualifying score of 62 or higher on the End of Course examination.

CTHIM002 HIM-1311 3 Cr.
 Legal and Ethical Aspects of Health Information Management

Student Requirements:
 Student must matriculate to an institution of higher education with an approved or comparable program NO LATER than 3 years after completing the approved secondary program. Student must successfully complete Ohio Department of Education (ODE) course Health Information Management (072140) and earn a qualifying score of 57 or higher on the End of Course examination.

PLEASE NOTE: This CTAN is an approved OAN in the Health TAG. The number and title are OHL021 - Legal Aspects.

Horticulture

CTHOR002 PST-1420 3 Cr.
 Landscape Maintenance

Student Requirements:
 Student must matriculate to an institution of higher education with a comparable course NO LATER than 3 years after completing the approved secondary program. Student must successfully complete Ohio Department of Education (ODE) course Landscape Hardscapes (010640) and earn a score of 56 or higher on the End of Course examination.

CTHOR003 PST-1411 2 Cr.
 Equipment Operation and Maintenance

Student Requirements:
 Matriculate to an institution of higher education with a comparable course NO LATER than 3 years after completing the approved secondary program. Student must successfully complete Ohio Department of Education (ODE) course Landscape Systems Management (010615) and earn a score of 64 or higher on the End of Course examination.

Hospitality, Tourism, and Culinary Arts

CTCF001 HOSP-1020 2 Cr.
 Sanitation and Safety

Student Requirements:
 Student must matriculate to an institution of higher education with an approved or comparable program within the currency of the credential after completing the approved program. Student must hold a current ServSafe® Manager Certification offered through the National Restaurant Association (NRA).

CTCF002 HOSP-1010 2 Cr.
 Introduction to Hospitality and Tourism

Student Requirements:
 Student must matriculate to an institution of higher education with an approved or comparable program within 3 years of completing the approved program. Student must successfully complete the Ohio Department of Education (ODE) course Hospitality Fundamentals (330000) from an approved program and earn a qualifying score of 68 or higher on corresponding End of Course examination.

CTCF006 HOSP-1580 2 Cr.
 Front Office Operations

Student Requirements:
 Student must matriculate to an institution of higher education with an approved or comparable program within 3 years of graduating from an approved career-technical education institution. Student must successfully complete Ohio Department of Education (ODE) course Front Office Management and Operation (330030) and earn a qualifying score of 77 or higher on the corresponding End-of-Course examination.

Information Support Services and Networking

CTIT002 ITNT-2300 3 Cr.
 Networking/CompTIA
 Network +

Student Requirements:
 Student must matriculate to an institution of higher education with an approved or comparable program within 3 years after completing the approved secondary program. Student must successfully complete the Ohio Department of Education (ODE) secondary courses below and earn a qualifying score on the corresponding End of Course examinations:
 Course 1: Networking (145035), qualifying score of 60 or higher, AND
 Course 2: Network Management (145045) qualifying score of 50 or higher
 OR, student must hold the current CompTIA Network+ certification, Cisco Certified Network Associate (CCNA) certification, Cisco Certified Entry Networking Technician (CCENT) certification
 OR, student must have passed Cisco I and II semester tests (proctored and closed book test environment).

CTIT013 Microsoft Server Administration	ITNT-2320	3 Cr.
Student Requirements: Student must matriculate to an institution of higher education with an approved or comparable program within 3 years after completing the approved secondary program. Student must successfully complete the Ohio Department of Education (ODE) secondary course Network Operating Systems (145040) and receive a qualifying score of 64 or higher on the End of Course examination OR, the student must hold the current Microsoft Server Certification (for example, Windows Server 2012 or comparable, Server Administration Exam #70-646 or current equivalent exam).		

CTIT015 ITNT-2370 3 Cr.
 CompTIA Security +

Student Requirements:
 Student must matriculate to an institution of higher education with an approved or comparable program NO LATER than 3 years after completing the approved secondary program. Student must successfully complete the Ohio Department of Education (ODE) secondary course below and earn a qualifying score on the corresponding End of Course examination: Network Security (145050) qualifying score of 55 or higher OR, the student must hold the current CompTIA Security + certification (Exam #SY0-301 or the current equivalent exam).

Interactive Media Technology

CTIM004 VCIM-1570 3 Cr.
 Internet and Web Languages

Student Requirements:
 Student must matriculate to an institution of higher education with an approved or comparable program within 3 years after completing the approved secondary program. Student must successfully complete the Ohio Department of Education (ODE) secondary course Web Design (145010) and earn a qualifying score on the corresponding End of Course examination of 55 or higher.

This course is NOT a pre-requisite for Graphical Web Design. Students need not fulfill the requirements for this class to receive credit for the Graphical Web design class if they meet the outcomes of Graphical Web Design.

Media Arts

CTMDA003 FILM-1180 3 Cr.
 Introduction to
 Single Camera Video
 Production

Student requirements:
 Student must matriculate to an institution of higher education with an approved or comparable program within 3 years after completing the approved secondary program. Student must successfully complete the Ohio Department of Education (ODE) secondary course Video Production (340145) and earn a qualifying score of 59 or higher on the End of Course examination.

PLEASE NOTE:
 This CTAN is an approved OAN in the Communication TAG. The number and title are OCM008 - Introduction to Single Camera Production.

Medical Assisting

CTMAT004 & MA-1503 & MA-150L 2 Cr. & 1 Cr.
 CTMAT005

Basic Administrative
 Medical Assisting
 Functions & Perform
 Bookkeeping Functions

Student Requirements:
 Student must provide proof to receiving institution that: (1) she/he holds the CMA-AAMA or RMA-AMT credential and that (2) she/he has completed a medical assisting program approved by the Ohio Department of Education (ODE).

CTMAT006 MA-2110 2 Cr.
 Process Insurance
 Claims

Student Requirements:
 Student must provide proof to receiving institution that: (1) she/he holds the CMA-AAMA or RMA-AMT credential and that (2) she/he has completed a medical assisting program approved by the Ohio Department of Education (ODE).

CTMAT008 MA-1403 & MA-140L 2 Cr. & 1 Cr.
 Fundamental
 Procedures

Student Requirements:
 Student must provide proof to receiving institution that: (1) she/he holds the CMA-AAMA or RMA-AMT credential and that (2) she/he has completed a medical assisting program approved by the Ohio Department of Education (ODE).

CTMAT009 MA-1321 & MA-132L 2 Cr. & 1 Cr.
 Specimen Collection

Student Requirements:
 Student must provide proof to receiving institution that: (1) she/he holds the CMA-AAMA or RMA-AMT credential and that (2) she/he has completed a medical assisting program approved by the Ohio Department of Education (ODE).

CTMAT010 MA-2413 & MA-241L 3 Cr. & 1 Cr.
 Diagnostic Testing

Student Requirements:
 Student must provide proof to receiving institution that: (1) she/he holds the CMA-AAMA or RMA-AMT credential and that (2) she/he has completed a medical assisting program approved by the Ohio Department of Education (ODE).

CTMAT011 HTEC-1610 & MA-2860 2 Cr. & 2 Cr. & 1 Cr.
Patient Care & MA-2980

Student Requirements:
Student must provide proof to receiving institution that: (1) she/he holds the CMA-AAMA or RMA-AMT credential and that (2) she/he has completed a medical assisting program approved by the Ohio Department of Education (ODE).

Medical Terminology

CTMT001 MA-1020 3 Cr.
Medical Terminology

Student Requirements:
Students must matriculate to an institution of higher education with a comparable course NO LATER than 3 years after completing the approved secondary program. Student must successfully complete the Ohio Department of Education (ODE) secondary course Medical Terminology (072150)] and earn a score of 61 or higher on the End of Course examination.

PLEASE NOTE: This CTAN is an approved OAN in the Health TAG. The number and title are OHL020 - Medical Terminology.

Performing Arts

CTPAT001 THEA-1430 3 Cr.
Stagecraft

Student Requirements:
Student must matriculate to an institution of higher education with an approved or comparable program within 3 years after completing the approved secondary program. Student must successfully complete the Ohio Department of Education (ODE) secondary course Stagecraft (340250) and earn a qualifying score on the End of Course examination of 66 or higher.

PLEASE NOTE: This CTAN is an approved OAN in the Arts and Humanities TAG. The number and title are OAH028 - Stagecraft.

Pharmacy Technician

CTPT001 MA-1010 & PHM-1300 2 Cr. & 3 Cr.
Introduction to Pharmacy Technician

Student requirements:
A pharmacy program must contain 350 clock hours of instruction. This course must provide at least 75 clock hours. To be eligible for credit, student must hold the Pharmacy Technician Certification Board (PTCB) credential.

CTPT002 PHM-2080 & PHM-2701 1 Cr. & 4 Cr.

Pharmacy Concepts

Student requirements:

A pharmacy program must contain 350 clock hours of instruction.

This course must provide at least 75 clock hours. To be eligible for credit, student must hold the Pharmacy Technician Certification Board (PTCB) credential.

CTPT003 PHM-2860 3 Cr.

Pharmacy Laboratory/
Clinical Experience

Student Requirements:

A pharmacy program must contain 350 clock hours of instruction.

This course must provide at least 225 clock hours of psychomotor experiences. To be eligible for credit, student must hold the Pharmacy Technician Certification Board (PTCB) credential.

Programming

CTPROG002 IT-2650 4 Cr.

Java Programming

Student requirements:

Student must matriculate to an institution of higher education with an approved or comparable program no later than 3 years after completing the approved secondary program. Student must successfully complete the approved Ohio Department of Education (ODE) secondary course Object Oriented Programming (145065), and receive a qualifying/passing score of 55 or higher on the End of Course examination.