

CAREER-TECHNICAL TRANSFER ASSURANCE GUIDES



Career-Technical Transfer Assurance Guides (CTAGs/CT2)

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 offer 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 and the processing instructions.

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 that corresponds with a CTAG. Learn more about CTAGs/CTANs, and see Tri-C's approved courses below.

*Verification Form

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.

*In order to receive
credit a student must
complete a verification
form.

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

CTIT017 EET-1303 3 Cr.
 Cisco I

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 CISCO™ course and pass applicable semester tests (proctored and closed book test environment) in Cisco I curriculum (official CISCO™ End of Course™ exam).

OR, student must hold current Cisco certifications, Cisco Certified Network Associate (CCNA) certificate, Cisco Certified Technician (CCT) certificate.

*In order to receive credit a student must complete a verification form.

CTEET001 DC Circuits	EET-1161	3 Cr.
<p>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.</p> <p>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.</p> <p>PLEASE NOTE: This CTAN is an approved OAN in the Electrical</p>		

Engineering Technology TAG. The number and title are OET001 - DC Circuits.		
CTEET002 Digital Electronics	EET-1241	3 Cr.
<p>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.</p> <p>PLEASE NOTE: This CTAN is an approved OAN in the Electrical Engineering Technology TAG. The number and title are OET002 - Digital Electronics.</p>		

<p>CTIT018 Cisco II</p>	<p>EET-2303</p>	<p>3 Cr.</p>
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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 CISCO™ course and pass applicable semester tests (proctored and closed book test environment) in Cisco II curriculum (official CISCO™ End of Course” exam).
 OR Student holds current Cisco certification, Cisco Certified Network Associate (CCNA) certificate.

*In order to receive credit a student must complete a verification form.

<p>CTIT019 Cisco III</p>	<p>EET-2313</p>	<p>3 Cr.</p>
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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 CISCO™ course and pass applicable semester tests (proctored and closed book test environment) in Cisco III curriculum (official CISCO™ End of Course” exam).
 OR Student holds current Cisco certification, Cisco Certified Network Associate (CCNA) certificate.

*In order to receive credit a student must complete a verification form.

CTEET003 Programmable Logic Controllers	EET-2520	3 Cr.
<p>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.</p> <p>Student Requirements for Adult Career-Technical Students: Student must successfully complete an approved (CT)2 program at an Ohio Technical Center.</p> <p>PLEASE NOTE: This CTAN is an approved OAN in the Electrical Engineering Technology TAG. The number and title are OET022 - Programmable Logic Controllers.</p>		

Engineering – Mechanical Engineering Technology

CTMET004 Manufacturing Processes	MET-1240	3 Cr.
<p>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.</p> <p>PLEASE NOTE: This CTAN is an approved OAN in the Mechanical Engineering Technology TAG. The number and title are OET010 - Manufacturing Processes.</p>		

<p>CTMET005 Computer Aided Design/Drafting (CADD)</p> <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>	<p>MET-2041</p>	<p>3 Cr.</p>
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Emergency Medical Technician

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

<p>CTENTR001 Introduction to Entrepreneurship</p> <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>	<p>BADM-1301</p>	<p>3 Cr</p>
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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 Legal and Ethical Aspects of Health Information Management	HIM-1311	3 Cr.
<p>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.</p> <p>PLEASE NOTE: This CTAN is an approved OAN in the Health TAG. The number and title are OHL021 - Legal Aspects.</p>		

Horticulture

CTHOR002 Landscape Maintenance	PST-1420	3 Cr.
<p>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.</p>		

CTHOR003 Equipment Operation and Maintenance	PST-1411	2 Cr.
<p>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.</p>		

Hospitality, Tourism and Culinary Arts

CTCF001 Sanitation and Safety	HOSP-1020	2 Cr.
<p>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).</p>		

*In order to receive credit a student must complete a verification form.

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.

CTCF005 HOSP-1031 3 Cr.
 Basic Food Production

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. Successfully complete ODE Secondary course Fundamentals of Food Productions (330100) and earn qualifying score of 76 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.

CTCF009 HOSP-2700 2 Cr.
 Food Principles and Purchasing

Student Requirements:
 Student must articulate 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) secondary course Restaurant Management and earn a qualifying score of 66 or higher on the corresponding End-of-Course examination.

Information Technology

CTIT002 (ITNT 2300) ITNT-2300 3 Cr.
Intro to Networking

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	ITNT-2320	3 Cr.
Microsoft Server Administration		
<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 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).</p>		

CTIT015
CompTIA Security +

ITNT-2370

3 Cr.

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) VCIM-1570 3 Cr.
Intro to Web Development

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 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.

Nursing

CTLPRN001 NURS-1000 1 Cr.
 Introduction to
 Healthcare Concepts

(1 of 5 courses, all must be taken)
 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 or within the currency of the industry certificate or license. Students must successfully complete an Ohio Board of Nursing approved Practical Nursing program at an Ohio public secondary institution, Ohio Technical Center, or Military program and must pass the NCLEX-PN exam and provide appropriate documentation to receiving institution.

*In order to receive credit a student must complete a verification form.

CTLPRN001	NURS-1010	4 Cr.
Introduction to Patient Care Concepts		
(2 of 5 courses, all must be taken)		
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 or within the currency of the industry certificate or license. Students must successfully complete an Ohio Board of Nursing approved Practical Nursing program at an Ohio public secondary institution, Ohio Technical Center, or Military program and must pass the NCLEX-PN exam and provide appropriate documentation to receiving institution.		
*In order to receive credit a student must complete a verification form.		

CTLPRN001 NURS-1200 4 Cr.
 Fundamentals of
 Nursing Concepts

(3 of 5 courses, all must be taken)
 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 or within the currency of the industry certificate or license. Students must successfully complete an Ohio Board of Nursing approved Practical Nursing program at an Ohio public secondary institution, Ohio Technical Center, or Military program and must pass the NCLEX-PN exam and provide appropriate documentation to receiving institution.

*In order to receive credit a student must complete a verification form.

CTLPRN001 NURS-1220 5 Cr.
 Fundamentals of
 Nursing Concepts

(4 of 5 courses, all must be taken)
 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 or within the currency of the industry certificate or license. Students must successfully complete an Ohio Board of Nursing approved Practical Nursing program at an Ohio public secondary institution, Ohio Technical Center, or Military program and must pass the NCLEX-PN exam and provide appropriate documentation to receiving institution.

*In order to receive credit a student must complete a verification form.

CTLPRN001 NURS-1240 1 Cr.
 Role Transitions

(5 of 5 courses, all must be taken)
 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 or within the currency of the industry certificate or license. Students must successfully complete an Ohio Board of Nursing approved Practical Nursing program at an Ohio public secondary institution, Ohio Technical Center, or Military program and must pass the NCLEX-PN exam and provide appropriate documentation to receiving institution.

*In order to receive credit a student must complete a verification form.

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.

Programming

CTPROG002 (IT 2650) IT-2650 4 Cr.
Computer Science I

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.

Supply Chain Management Technology

CTSCM002 BADM-2120 3 Cr.
Logistics and Transportation

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) secondary course Logistics Management (142030) and earn a qualifying score of 65 or higher on the corresponding End-of-Course examination.