



Memorandum

To: Career-Technical Center Directors and Superintendents

From: Dr. Paula Compton, Associate Vice Chancellor, Articulation and Transfer

Date: June 17, 2016

Subject: Updated Career-Technical Assurance Guide (CTAG): Programming & Software Development

I am pleased to announce an update to the Career-Technical Assurance Guide (CTAG) that facilitates transfer from Ohio’s public secondary career-technical institutions to Ohio’s Public Colleges and Universities in the area of Information Technology. This memo provides an overview of the Programming and Software Development CTAG. It also addresses the need for secondary action and participation.

Programming & Software Development

The Programming & Software Development CTAG was created through the Secondary Career-Technical Alignment Initiative (SCTAI), a collaborative effort between the Ohio Department of Higher Education ODHE (formerly, Ohio Board of Regents) and the Ohio Department of Education (ODE), which supports the legislative mandates in ORC 3333.162. Faculty experts from two-year and four-year institutions, across the state, worked on the initiative to ensure similar academic content by examining and providing input into ODE Content Standards and then aligning those standards with post-secondary learning outcomes. A survey was sent to all of Ohio’s Public Colleges and Universities member institutions for review, comment, and endorsement. Findings favored the creation of a statewide agreement in Programming & Software Development and the addition of four new Career-Technical Articulation Numbers (CTANs) for statewide articulation. The attached assurance guide details the criteria that will provide secondary career-technical students the opportunity to earn credit for the approved CTANs below. This letter addresses the need for the participation of secondary institutions.

The Programming CTAG includes the following CTANS:

Table A: Information Support Services and Networking CTAG Crosswalk to ODE Courses	
Career-Technical Articulation Numbers (CTANs)	Ohio Department of Education (ODE) EMIS Numbers and Course Names
CTPROG001 - Computer Logic (3 Credits)	145060 - Programming
*CTPROG002 - Java Programming (3 Credits)	145065 - Object Oriented Programming
*CTPROG003 - C++ Programming (3 Credits)	145065 - Object Oriented Programming
CTIT012 - Microsoft .NET Fundamentals (3 Credits)	145070 - Visual Programming

*These CTANs are mutually exclusive. An institution may only be approved for either Java Programming or C++ programming; when using ODE course 145065 – Object Oriented Programming.

Process for Course Submissions Through CEMS (Affirmation Form): For the CTANs contained in Table A above, the End of Course (WebXam™) qualifying scores are notated with the corresponding CTAN and ODE course(s). For CTAN **CTPROG001 - Computer Logic** [ODE course Programming (EMIS Code 145060) students are required to earn a qualifying score of 64 or higher on the WebXam™. CTAN **CTPROG002 - Java Programming** [ODE course Object Oriented Programming (EMIS Code 145065) requires a score of 63 or

higher. CTAN **CTPROG003 - C++ Programming** [ODE course Object Oriented Programming (EMIS Code 145065) requires a score of 63 or higher. Lastly, for CTAN **CTIT012 - Microsoft .NET Fundamentals**, [ODE course Visual Programming (EMIS Code 145070) a score of 62 or higher is required for the WebXam™.

Programs may submit the Certificate of Affirmation Form for course approval. Students must meet the qualifying scores for each corresponding ODE End-of-Course examination as indicated above. The Certificate of Affirmation Form can be accessed at <https://www.ohiohighered.org/transfer/ct2/affirmation>. The Affirmation Form must be signed by a district administrator. This Affirmation Form requires faculty to confirm that the appropriate ODE courses, aligned with CTANs listed in Table A, are being taught at the secondary institution.

Process for Students to Earn Credit: The following steps must occur for secondary students to have the opportunity to access college credit for these courses:

1. Secondary institutions must submit their course information to the Course Equivalency Management System (CEMS) for each ODE course taught at the institution, and according to the submission requirements for each CTAN. For institutions submitting for CTPROG001 – Programming, the Affirmation document can be found here <https://www.ohiohighered.org/transfer/ct2/affirmation>. The Affirmation Form must be signed by a district administrator. This document affirms that faculty teaching the course recognize the course provides an opportunity for articulated credit and assures adherence to using the SCTAI alignment document as part of the course delivery. For the remaining CTANs in this CTAG a full program submission is required.
2. Students must accomplish both a & b outlined below:
 - a) pass the ODE aligned course(s) with a “C” or better
 - b) pass the corresponding End-of-Course examination with a qualifying score [for those CTANs requiring the examination]
3. Students must then work with their secondary institution(s) to ensure that their official high school transcript, official WebXam™ scores (where applicable), and the (CT)² Verification Form (available on our website), <https://www.ohiohighered.org/node/5076>, are submitted to the post-secondary institution(s) where the student chooses to enroll. The post-secondary institution must also be a part of the statewide agreement or offer the career-technical discipline to facilitate transfer.

If your institution offers any of the four ODE courses please submit the course or as applicable, affirmation form, through the Course Equivalency Management System ([CEMS](#)) for review. Providing a submission prior to September 26, 2016 will allow the course and required documentation to be reviewed in the next review cycle. All institutions will need to make a submission for the aforementioned CTANs if they have comparable courses.

I would like to thank all of those involved in this process for their dedication and support. The names of the faculty participants are listed on page 6 of the Programming & Software Development CTAG. If you have any questions, please feel to contact Monique Menefee-Profitt, Associate Director of Career-Technical Transfer Initiatives, mmenefee-profitt@highered.ohio.gov, 614-387-1022 or Jamilah Tucker, Director of Career-Technical Transfer Initiatives, jjones@highered.ohio.gov, 614-466-0573. For technical assistance with a submission, please contact Ryan Cupp, Administrator Career-Technical Transfer Initiatives, rcupp@highered.ohio.gov, 614-752-9474.

Enclosures (1)