Ohio | Department of Higher Education

John R. Kasich, Governor
John Carey, Chancellor

**REQUEST AND RECOMMENDATION**

**ONE YEAR OPTION**
**700- 799 Clock Hour Programs – IT Support Services**

**Background:**

To provide another option for adult students to apply prior learning toward a degree, Ohio legislators established what has come to be known as the One-Year-Option through Section 363.120 House Bill 59 of the 130th General Assembly. The Chancellor of the Ohio Department of Higher Education, in consultation with the Superintendent of Public Instruction and the Governor's Office of Workforce Transformation, was tasked to establish a One-Year Option credit articulation system in which graduates of Ohio's adult career-technical institutions who complete a 900-hour program of study AND obtain an industry-recognized credential approved by the Chancellor will be able to receive 30 technical semester credit hours toward a technical degree upon enrollment in a public institution of higher education. The Chancellor was also to recommend a process to award proportional semester credit hours for adult career-technical institution students who complete a program of study between 600 and 899 hours AND obtain an industry-recognized credential approved by the Chancellor. The Chancellor convened a broad group of stakeholders to develop a system of articulation for the One Year Option that was presented in a report to the legislature called, "*Getting to 30: Establishing a One Year Option Credit Articulation System for Ohio*."

In order to implement the system of articulation developed with the stakeholders as well as address accreditation requirements for degree granting institutions, the Chancellor convened Credit Affirmation Teams (CATs) to conduct a peer review of programs and certifications for affirmation for a block of 30 semester hours of technical credit. The CATs were comprised of faculty and administrators from Ohio Technical Centers (OTCs) and an equal number from public degree granting colleges and universities in Ohio. The CATs were organized by four discipline clusters: Health and Allied Health, Building and Industrial Technology, Business and Information Technology, and Services. They were charged with reviewing the certifications and, if necessary, program content, to affirm that students completing the selected program at an Ohio Technical Center and earned approved certifications had demonstrated competencies equivalent to technical credit. CATs affirmed that programs over 900 hours, articulated to a block of 30 technical credit hours. For programs between 600-899 credit hours, the review resulted in a proportional amount of credit hours being awarded. This technical credit would then be granted, as a block, upon enrollment in a degree granting institution. Additional subject matter experts were consulted when core team members did not have sufficient content knowledge of the program being reviewed.

**Recommendation**

As detailed in the attached template, the Business and Information Technology Team recommends that students will be eligible for a block of 24 semester hours of technical credit towards an *Associate of Technical Studies in Business Technology* when:

- the student has successfully completed a 700- 799 clock hour program in IT Support Services at an Ohio Technical Center.

***And*** currently holds the following credentials:

- CompTIA Network+ N10-006
- CompTIA A+ 220-801, 220-802

***And*** currently holds ONE of the following credentials:

1. CompTIA Security+ SY0-401
2. CompTIA Server+ SK0-003 or SK0-004
3. CompTIA Linux+ LX0-101 (LPI Certification Level 1)
4. CompTIA Project+ PK0-003
5. Microsoft Operating System Fundamentals (MTA 98-349)
6. Microsoft Server Administration Fundamentals (MTA 98-365)
7. Microsoft Windows Server 2012
   - 70-410: Installing and Configuring Windows Server 2012
   - 70-411: Administering Windows Server 2012
   - 70-412: Configuring Advanced Windows Server 2012 Services
   - 70-413: Designing and Implementing a Server Infrastructure
   - 70-414: Implementing an Advanced Server Infrastructure
8. Microsoft Windows Server 2008
   - 70-640: Windows Server 2008 Active Directory, Configuring
   - 70-642: Windows Server 2008 Network Infrastructure, Configuring
   - 70-646: Windows Server 2008, Server Administrator
9. Microsoft Windows 8
   - 70-687: Windows 8, Configuring
   - 70-688: Windows 8 Enterprise Desktop Support
10. Microsoft Windows 7
    - 70-680: Windows 7, Configuring
    - 70-685: Windows 7, Enterprise Desktop Support Technician
11. Cisco CCENT
12. Cisco CCNA

Please note all credentials must be current, valid, and in good standing.

**End of Comment Period:** November 21, 2016 at 9:00 am
**No comments received, recommend approval**

| **RECOMMENDATION** | |
|---|---|
| The Vice Chancellor of Academic Affairs has verified that this pathway has met the standards and requirements of the Ohio Board of Regents. | |
| S Davidson | 11/28/16 |
| **Stephanie Davidson, Vice Chancellor of Academic Affairs** | **Date** |

| **APPROVAL** | |
|---|---|
| J. Carey | 12/2/16 |
| **John Carey, Chancellor** | **Date** |

bmj

**One-Year Option**

**Certification Affirmation Template**

## Preamble:

The Business and IT Credit Affirmation Team reviewed associated credentials for the program area, Information Support and Services (IT). With subject matter experts and representatives from Ohio Technical Centers and Community Colleges, as stated below, the group surveyed credentials associated with 700- 799 hour programs. Credential preparation and competencies from similar technical courses at Community Colleges were reviewed.

The consensus of the team was that an array of IT-related industry-recognized credentials are available for IT programs to use. However, the team determined that three credentialing bodies, CompTIA, Microsoft, and Cisco met the rigorous standards necessary for affirming credit.

Thus, it is the recommendation of the team that a student who completes a 700- 799 hour program, obtains the two Core CompTIA Credentials (CompTIA Network+ and CompTIA A+) AND holds a combination of any one IT credential from the program-related competencies, should be granted 24 technical hours towards an Associate Degree of Technical Studies.

The required **Core CompTIA Credentials** include:

1. CompTIA A+ certification, students must pass both of the following tests:
   - CompTIA A+ 220-801
   - CompTIA A+ 220-802
2. CompTIA Network+ certification, students must pass the following test:
   - CompTIA Network+ N10-006

**Program-related Competencies** (any combination of any one of the following IT credentials):

13. CompTIA Security+ SY0-401
14. CompTIA Server+ SK0-003 or SK0-004
15. CompTIA Linux+ LX0-101 (LPI Certification Level 1)
16. CompTIA Project+ PK0-003
17. Microsoft Operating System Fundamentals (MTA 98-349)
18. Microsoft Server Administration Fundamentals (MTA 98-365)
19. Microsoft Windows Server 2012
    - 70-410: Installing and Configuring Windows Server 2012
    - 70-411: Administering Windows Server 2012
    - 70-412: Configuring Advanced Windows Server 2012 Services
    - 70-413: Designing and Implementing a Server Infrastructure
    - 70-414: Implementing an Advanced Server Infrastructure
20. Microsoft Windows Server 2008
    - 70-640: Windows Server 2008 Active Directory, Configuring
    - 70-642: Windows Server 2008 Network Infrastructure, Configuring

- 70-646: Windows Server 2008, Server Administrator

21. Microsoft Windows 8
    - 70-687: Windows 8, Configuring
    - 70-688: Windows 8 Enterprise Desktop Support
22. Microsoft Windows 7
    - 70-680: Windows 7, Configuring
    - 70-685: Windows 7, Enterprise Desktop Support Technician
23. Cisco CCENT
24. Cisco CCNA

**Important note: It is the intent of the Ohio Department of Higher Education to review the list of credentials regularly, but because the Information Technology field may experience frequent updates, the credentialing bodies may have modified some of the exams listed. If any of the listed credentials are updated, please consider the amended credential as eligible to satisfy proof of student competency.

*The Program Affirmation is designed to provide a common matrix for a peer review process acceptable to the Higher Learning Commission to soundly affirm awarding semester hours of technical credit for Ohio Technical Center graduates who are eligible for the One Year Option. The template should be completed for every program/subject and signed by the co-chairs of each of the four-cluster program areas for every Industry-recognized credential and program reviewed.*

*Please note: All Ohio Technical Centers must be accredited by one of the following: Council on Occupational Education (COE) and/or Accrediting Commission of Career Schools and Colleges (ACCSC).*

| **Program Name:**<br>IT Support Services<br><br>**CIP Code:** 11.1006 | **Cluster**<br>☑ Business & Information Technologies<br>☐ Health/Allied Health<br>☐ Industrial Trades<br>☐ Service Industries & Agriculture | |
|---|---|---|
| | **STEP ONE: CREDENTIAL REVIEW** | |
| | **Details/Explanation** | **Comments** |
| Primary Industry Credential (if there are competing certifications complete page multiple times) | **Name:** CompTIA A+, CompTIA Network+<br>**Type:**<br>☐ License<br>☐ Registry<br>☑ Certification | In order to receive CompTIA A+ certification, students must pass both of the following tests:<br>1. CompTIA A+ 220-801<br>2. CompTIA A+ 220-802<br><br>There are currently 2 exams that students can take to receive their CompTIA Network+ certification.<br>1. CompTIA Network+ N10-005<br>2. CompTIA Network+ N10-006 |
| Program requirements by credentialing body. | CompTIA A+ and Network+ are accredited by American National Standards Institute (ANSI) to show compliance with the ISO 17024 Standard and, as such, undergo regular reviews and updates to the exam objectives.<br><br>The CompTIA A+ and CompTIA Network+ certifications are a result from subject matter expert workshops and industry-wide survey results regarding the skills and knowledge required of an | |

| | | |
|---|---|---|
| | entry-level IT professional. Tests are administered at Pearson VUE certified testing centers.<br><br>It is recommended for CompTIA Network+ candidates have the following:<br>• CompTIA A+ certification or equivalent knowledge, though CompTIA A+ certification is not required<br>• Have at least 9 to 12 months of work experience in IT networking<br>The CompTIA A+ and Network+ certifications both expire 3 years after certification achievement.<br><br>For more information, see http://certification.comptia.org/stayCertified/earn-continuing-education-units | |
| Competencies demonstrated by credential attainment. | **CompTIA A+**<br>In order to receive CompTIA A+ certification a candidate must pass two exams. The first exam is CompTIA A+ 220-801 Certification Exam. The CompTIA A+ 220-801 examination measures necessary competencies for an entry-level IT professional with the equivalent knowledge of at least 12 months of hands-on experience in the lab or field. Successful candidates will have the knowledge required to assemble components based on customer requirements, install, configure and maintain devices, PCs and software for end users, understand the basics of networking and security/forensics, properly and safely diagnose, resolve and document common hardware and software issues while applying troubleshooting skills. Successful candidates will also provide appropriate customer support; understand the basics of virtualization, desktop imaging, and deployment.<br><br>CompTIA A+ 220-801 Competencies: | **Are the competencies signaled by credential attainment worth 24 credit hours:**<br>☐ Yes<br>☑ No, these credentials are a critical foundation to IT support services. However, one additional complementary credential, as described below, is required. |

| Domain | Percentage of Examination |
|---|---|
| PC Hardware | 40% |
| Networking | 27% |
| Laptops | 11% |
| Printers | 11% |
| Operational Procedures | 11% |
| | |
| **Total** | 100% |

For additional information on competencies, please see http://certification.comptia.org/docs/default-source/exam-objectives/CompTIA_A_220-801_Objectives.pdf

CompTIA A+ 220-802 Competencies:

| Domain | Percentage of Examination |
|---|---|
| Operating Systems | 33% |
| Security | 22% |
| Mobile Devices | 9% |
| Troubleshooting | 36% |
| | |
| **Total** | 100% |

For additional information on competencies, please see http://certification.comptia.org/docs/default-source/exam-objectives/CompTIA_A_220-802_Objectives.pdf

**CompTIA Network+**

This exam will certify that the successful candidate has the knowledge and skills required to implement defined network architecture with basic network security. Furthermore, a successful candidate will be able to configure, maintain, and troubleshoot network devices using appropriate network tools and understand the features and purpose of network technologies. Candidates will be able to make basic solution recommendations, analyze network traffic, and be familiar with common protocols and media types.

CompTIA Network+ N10-005 Competencies

| Domain | % of Examination |
|---|---|
| 1.0 Network Concepts | 21% |
| 2.0 Network Installation and Configuration | 23% |
| 3.0 Network Media and Topologies | 17% |
| 4.0 Network Management | 20% |
| 5.0 Network Security | 19% |
| **Total** | **100%** |

For additional information on competencies, please see http://certification.comptia.org/docs/default-source/exam-objectives/CompTIA_Network_N10-005.pdf

CompTIA Network+ N10-006 Competencies

| Domain | % of Examination |
|---|---|
| 1.0 Network architecture | 22% |
| 2.0 Network operations | 20% |
| 3.0 Network security | 18% |
| 4.0 Troubleshooting | 24% |
| 5.0 Industry standards, practices, and network theory | 16% |
| **Total** | **100%** |

For additional information on competencies, please see http://certification.comptia.org/docs/default-source/exam-objectives/comptia-network-%28n10-006%29_examobjectives.pdf

Rationale:

1) CompTIA A+ and Network+ are accredited by American National Standards Institute (ANSI) to show compliance with the ISO 17024 Standard and, as such, undergo regular reviews and updates to the exam objectives.

2) The credentialing exams are valid, reliable, and peer-reviewed regularly to ensure that the content accurately measures the intended competencies.

3) The CompTIA Network+ and A+ exams are administered by a secure, well respected, third-party testing company (Pearson Vue) and are primarily delivered in computer-based format to increase security & better maintain up-to-date content delivery.

4) The CompTIA A+ and CompTIA Network+ certifications are a result from subject matter expert workshops and industry-wide survey results regarding the skills and knowledge required of an entry-level IT professional.

5) It is recommended by CompTIA that CompTIA Network+ candidates have CompTIA A+ certification or equivalent

| | |
|---|---|
| | knowledge and have at least 9 to 12 months of work experience in IT networking.<br><br>Taking the reliability of the exam, rigor of the program, and the review of content, the Business and IT Credit Affirmation Team believes that attaining the CompTIA A+ and Network+ credentials AND three of the additional credentials listed below following completion of a 700- 799 hour Ohio Technical Center IT program to be equivalent to a block of 24 technical credits for the One Year Option. |

| **ONLY IF NECESSARY TO AFFIRM 24 CREDITS----STEP TWO: PROGRAM-RELATED COMPETENCIES OBTAINED OUTSIDE OF PRIMARY CREDENTIAL** | | |
|---|---|---|
| | **Details/Explanation** | **Comments** |
| Additional related complementary credential(s) or badge(s) (e.g. OSHA 10, CPR). | Students must complete any combination of any one IT credentials listed below:<br>**CompTIA certifications**<br>CompTIA Security+ SY0-401<br>CompTIA Server+ SK0-003 or SK0-004<br>CompTIA Linux+ LX0-101 (LPI Certification Level 1)<br>CompTIA Project+ PK0-003<br><br>**Microsoft certifications**<br>Microsoft Operating System Fundamentals (MTA 98-349)<br>Microsoft Server Administration Fundamentals (MTA 98-365)<br>Microsoft Windows Server 2012<br>• 70-410: Installing and Configuring Windows Server 2012<br>• 70-411: Administering Windows Server 2012<br>• 70-412: Configuring Advanced Windows Server 2012 Services<br>• 70-413: Designing and Implementing a Server Infrastructure<br>• 70-414: Implementing an Advanced Server Infrastructure<br>Microsoft Windows Server 2008<br>• 70-640: Windows Server 2008 Active Directory, Configuring | |

| | | |
|---|---|---|
| | • 70-642: Windows Server 2008 Network Infrastructure, Configuring<br>• 70-646: Windows Server 2008, Server Administrator<br>Microsoft Windows 8<br>• 70-687: Windows 8, Configuring<br>• 70-688: Windows 8 Enterprise Desktop Support<br>Microsoft Windows 7<br>• 70-680: Windows 7, Configuring<br>• 70-685: Windows 7, Enterprise Desktop Support Technician<br><br>**Cisco certifications**<br>Cisco CCENT<br>Cisco CCNA | |
| Competencies demonstrated by additional credential attainment. | Please see embedded links above for more details on specific competencies. | |
| Description of additional program elements beyond primary credential. | | |
| Program related competencies/learning outcomes outside of credential(s). Include how competencies are demonstrated. | | |
| Other Parameters of Competency. | | |
| Programs as of Spring | **Ohio Technical Center**<br>Career and Technology Educational Centers | **Program Name**<br>Network Technician<br><br>**Clock Hours**<br>720 |

| | | | |
|---|---|---|---|
| 2016: | The Washington County Career Center | Information Technology Professional Program | 720 |
| | Trumbull Career and Technology Center | Information Technology | 720 |

| Committee Members and Subject Matter Experts: | **Name** | **Role** | **Institution** |
|---|---|---|---|
| | Scott Halm | Co-Chair | Cuyahoga Community College |
| | Amy Leedy | Co-Chair | Miami Valley Career Technology Center |
| | Carleen Dotson | Member | Tri-County Adult Career Center |
| | Angelo Frole | Member | Columbus State Community College |
| | Jeanie Haapalainen | Member | Ashland County West Holmes Career Center |
| | Tony Hills | Member | Northwest State Community College |
| | Larry Ray | Member | Stark State College |
| | Greg Timberlake | Member | North Central State College |
| | Tina Trombley | Member | Career & Technology Education Centers of Licking County |
| | Roger Elliott | Subject Matter Expert | Career & Technology Education Centers of Licking County |

**OTHER COMMENTS.**

| | | |
|---|---|---|
| **AFFIRMED NUMBER OF TECHNICAL BLOCK CREDITS** | 24 semester hours | **LENGTH OF TIME CREDENTIAL CAN BE USED FOR ONE-YEAR OPTION:** All certifications must be current and have been taken in the past 3 years. |

Co-chair signatures:

Scott Halm
Associate Dean, Business and Information Technology
Cuyahoga Community College

Amy Leedy
Adult Education Supervisor
Miami Valley Career Technology Center

Date: 10/23/2016