

CTE Course Description and Standards Crosswalk

Course Information

Course Name	Networking + (N+)
Course Number	83600
Number of High School Credits	.5
Sequence or CTEPS (You must first have the Sequence or CTEPS entered into the EED-CTE system.)	Network Technician, Support Technician
Date of district Course Revision	February 2014

Career & Technical Student Organization (CTSO)

CTSO embedded in this sequence	BPA
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Occupational Standards

Source of Occupational Standards	National Business Education Association Standards (NBEA)
Names/Numbers of Occupational Standards	Career Development (CD), Information Technology (IT), Entrepreneurship(EN), Management (MGMT)

Registration Information

Course Description (brief paragraph – as shown in your student handbook or course list)	Network + is designed to familiarize students with the network information needed to manage a computer system. It will offer students training in the field of network administration. It is a precursor to the Network + Certification offered in industry. This class will cover <i>Novell, Microsoft, Unix</i> and <i>Cisco</i> information. Careers in this area include network technicians, network analysts, network and systems administrators, network support, and tech desk support.
Instructional Topic Headings (please separate each heading by a semi-colon)	Career Awareness; Network Connectivity; LAN/WAN Configuration; Network Troubleshooting; Documentation Preparation; Network Topology; Internet Protocol Addressing; Networking Skills; Network Administration; Network Security; Encourage Career and Technical Student Organization (CTSO) Involvement; Entrepreneurship; Safety; Ethics

Summative Assessments and Standards

Technical Skills Assessment (TSA)	Yes
Course addresses:	N+, IC3, Strata
New Alaska ELA and Math Standards	Yes
Alaska Cultural Standards	Yes
All Aspects of Industry (AAI)	Yes
Core Technical Standards	Yes
Employability Standards	Yes

Employability Standards

Source of Employability Standards	State of Alaska
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Tech Prep

Current Tech Prep Articulation Agreement? (Y/N)	Yes
Date of Current Agreement	May 2013
Postsecondary Institution Name	UAA MatSu College
Postsecondary Course Name	PC Network Technician Fundamentals
Postsecondary Course Number	CNT A212
# of Postsecondary Credits	3

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Source/Organization /Agency	Acronym	Website or Location of Information	Section, Chapters, etc. referenced in Performance Standards	Date of Edition or Version
National Business Education Association	NBEA	www.nbea.org	Career Development, Computation, and Information Technology,	2013

Additional CTE Course Information

Author	
Course developed by	Revised by Amy Riddle
Course adapted from	Networking (N+)
Date of previous course revision	May 2008
Course Delivery Model	
Is the course brokered through another institution or agency? (Y/N)	No

Standards Alignment

Student Performance Standards (Learner Outcomes or Knowledge & Skill Statements)	Specific Occupational Skills Standard	Common Technical Core Standards	New Alaska ENG/LA Standards	New Alaska Math Standards	Alaska Cultural Standards	Employability/ Career Readiness Standards	All Aspects of Industry/ Systems	Assessment
Identify and define the components of a network.	IT II, IV, XIII	IT-NET 1,2,3,4,5	L.9-12.1.a-b L.9-12.3a L.9-12.6 RST.9-12.4A	A-REI.2 N-Q.1	B2,4	A2,5	Technical Skills Technology	CompTIA Network + WorkKeys Applied Technology, Reading for Information & Locating Information
Identify network topologies and how they support the system.	IT XIII, XIV	IT-NET 1,2,3,4,5	L.9-12.1.a-b L.9-12.3a L.9-12.6 RST.9-12.4A	A-REI.2 N-Q.1	B2,4	A2,5	Technical Skills Technology	CompTIA Network + WorkKeys Applied Technology, Reading for Information & Locating Information
Demonstrate network connectivity.	IT XIII, XIV	IT-NET 1,2,3,4,5	L.9-12.1.a-b	A-REI.2 N-Q.1	B2,4	A2,5	Technical Skills	CompTIA Network +

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			L.9-12.3a L.9-12.6 RST.9-12.4A				Technology	WorkKeys Applied Technology, Reading for Information & Locating Information
State the primary functions of the network components.	IT XIII, XIV	IT-NET 1,2,3,4,5	L.9-12.1.a-b L.9-12.3a L.9-12.6 RST.9-12.4A	A-REI.2 N-Q.1	B2,4	A2,5	Technical Skills Technology	CompTIA Network + WorkKeys Applied Technology, Reading for Information & Locating Information
Demonstrate the uses of a LAN and WAN configuration in the network setting.	IT XIII, XIV	IT-NET 1,2,3,4,5	L.9-12.1.a-b L.9-12.3a L.9-12.6 RST.9-12.4A	A-REI.2 N-Q.1	B2,4	A2,5	Technical Skills Technology	CompTIA Network + WorkKeys Applied Technology, Reading for Information & Locating Information
Develop documentation to support a network.	IT XIII, XIV	IT-NET 1,2,3,4,5	L.9-12.1.a-b L.9-12.3a L.9-12.6 RST.9-12.4A	A-REI.2 N-Q.1	B2,4	A2,5	Technical Skills Technology	CompTIA Network + WorkKeys Applied Technology, Writing, Reading for Information & Locating Information
Implement a network security outline.	IT XIII, XIV, XV	IT-NET 1,2,3,4,5	L.9-12.1.a-b L.9-12.3a	A-REI.2 N-Q.1	B2,4	A2,5	Technical Skills Technology	CompTIA Network + WorkKeys

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Form #05-13-028

Alaska Department of Education and Early Development

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Student Performance Standards (Learner Outcomes or Knowledge & Skill Statements)	Specific Occupational Skills Standard	Common Technical Core Standards	New Alaska ENG/LA Standards	New Alaska Math Standards	Alaska Cultural Standards	Employability/ Career Readiness Standards	All Aspects of Industry/ Systems	Assessment
			L.9-12.6 RST.9-12.4A				Community	Applied Technology, Writing, Reading for Information & Locating Information
Follow professional ethics including software licensing, copyright and intellectual property laws in producing and monitoring web pages and sites.	IT-I,II	BM2,5,6 IT 4	WHST.9-12.8 L.9-12.6		B2,3,4	A1,2,5,7	Technical Skills Technology Work Habits	Statement of Authenticity WorkKeys Applied Technology, Writing, Reading for Information & Locating Information
Recognize entrepreneurship opportunities and the role of employer vs. employee.	IT-XVII EN-I C-V	BM3,5,6	L.9-12.6 SL.9-12.6	S-MD.6 S-IC.6	B2,4	A2,5	Technical Skills Labor	BPA-Small Business Management Team WorkKeys Reading for Information & Locating Information
Encourage CTSO involvement.	IT-XVII EN-I CD-IV CD-V	BM3,5,6	L.9-12.6 SL.9-12.6 SL.9-12.1.a-d		B2,3,4 C4 D6 E7,8	A2,5	Technical Skills Technology Planning Labor Work Habits	BPA Competitions
Research career opportunities in the Business/IT career area.	IT-XVII EN-I	BM3,5,6	L.9-12.6 SL.9-12.6	S-MD.6 S-IC.6	B2,3,4	A1,2,3,4,5,6,7	Technical Skills	AKcis Portfolio

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	CD-II		WHST.9-12.6			B1,2,3,4,5	Planning Technology	WorkKeys Reading for Information & Locating Information
Demonstrate safe use of tools and equipment, cyber safety and ergonomic safety in the workplace.	IT-I	BM5,6 IT4	L.9-12.6 WHST.9-12.8		B2,4	A1,6	Technical Skills Health/Safety	AK EED Safety Manual Business & Information Systems WorkKeys Applied Technology
Practice and promote ethics and ethical behavior in the workplace	IT-I	BM2,5,6 IT4	WHST.9-12.8	S-MD.6 S-IC.6	B2,3,4	A,1,2,5	Technical Skills Work Habits Management	CTSO Participation WorkKeys Teamwork, Applied Technology, Writing, Reading for Information & Locating Information

Instructional Resources

List the major instructional resources used for this course: (websites, textbooks, essential equipment, reference materials, supplies)

All Aspects of Industry

- P - Planning
- M - Management

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- F - Finance
- TP - Technical and Production
- PT - Principles of Technology
- L - Labor Issues
- C - Community Issues
- HSE - Health, Safety, and Environment
- PWH - Personal Work Habits

Recommended Text:

CompTIA Network+ (CompTIA Press)

Resources: <http://akcis.org>
www.bpa.org
www.comptia.org/certification
www.certipoint.com