

CTE Course Description and Standards Crosswalk

Course Information	
Course Name	A+
Course Number	BB820
Number of High School Credits	.5
Sequence or CTEPS (You must first have the Sequence or CTEPS entered into the EED-CTE system.)	Information Technology, Support Technician
Date of district Course Revision	10-15-2014
Career & Technical Student Organization (CTSO)	
CTSO embedded in this sequence	BPA
Occupational Standards	
Source of Occupational Standards	CompTIA
Names/Numbers of Occupational Standards	220-801 A+ Certification
Registration Information	
Course Description (brief paragraph – as shown in your student handbook or course list)	This course prepares students to obtain the A+ Computer Certification. The nationally recognized certification for the A+ certification is the CompTIA's Exam 220-801. This course is designed to prepare students for competency in passing this exam. Students completing this course at AVTEC will receive .5 high school credit.
Instructional Topic Headings (please separate each heading by a semi-colon)	A+ Exam 220-801 covers PC hardware and networking. The following knowledge domains are addressed: PC hardware; Networking; Laptops; Printers; Operational procedures
Summative Assessments and Standards	
Technical Skills Assessment (TSA)	Yes
Course addresses:	
New Alaska ELA and Math Standards	Yes
Alaska Cultural Standards	Yes
All Aspects of Industry (AAI)	Yes
Core Technical Standards	Yes
Employability Standards	Yes

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Employability Standards	
Source of Employability Standards	State of Alaska
Tech Prep	
Current Tech Prep Articulation Agreement? (Y/N)	Yes
Date of Current Agreement	Nov. 2014
Postsecondary Institution Name	AVTEC
Postsecondary Course Name	Fundamental PC Support
Postsecondary Course Number	IT 101
# of Postsecondary Credits	4

Additional CTE Course Information

Author	
Course developed by	Dan Bohrsen (KPBSD) and Trish Hart (AVTEC)
Course adapted from	MatSu Career and Technical Center (Trish Zugg: Revised by Amy Riddle)
Date of previous course revision	May 2008
Course Delivery Model	
Is the course brokered through another institution or agency? (Y/N)	TestOut Corporation (REV 11/12) LabSim PC Pro

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

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
Students will learn how to connect common peripherals to standard ports. Items discussed include: Elements of a computer, Functions that computers perform, Componentization, Standardization, Types of ports and connectors	CompTIA 1.7	IT11,12 IT-PRG1,2	W4.9-12, R4.9-12	A REI.2 N Q.1	B2,4	A2,5	Technical Skills Technology	PC Pro Certification Practiced Exams CompTIA A+ Exam
Students will examine the protection and safety of users and computers, professionalism, PC tools and PC maintenance.	CompTIA 5.1, 5.4, 5.3, 2.10, 5.2	IT1,4	R3.9-12, R4.9-12, W	SID.9	B2,4	A2,5,6	Technical Skills Technology Health/Safety	PC Pro Certification Practiced Exams CompTIA A+ Exam
Students will explore basics about computer cases and form factors, power supplies, motherboards and buses, processors, memory, BIOS, expansion cards, video, audio, cooling	CompTIA 1.2, 1.8, 1.6, 1.3, 1.1, 1.4	IT11,1 2 IT-PRG1,2,3,4,9	R3.9-12, R4.9-12	A REI.2 N Q.1	B2,4	A2,5	Technical Skills Technology	PC Pro Certification Practiced Exams CompTIA A+ Exam
Students will learn how to connect peripheral devices through an external port to the computer. Topics include: Serial, parallel, and PS/2, USB, IEEE 1394 displays devices.	CompTIA 1.7, 1.12, 1.4, 1.11, 1.10, 1.5		R3.9-12, R4.9-12					PC Pro Certification Practiced Exams CompTIA

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		IT11,1 2 IT-PRG1,2,3,4,9		A REI.2 N Q.1	B2,4	A2,5	Technical Skills Technology	A+ Exam
Students will be provided an overview of storage devices including: floppy drives, parallel ATA (IDE), Serial ATA, SCSI, Optical Media and RAID	CompTIA 1.4, 1.5, 1.11, 1.7,	IT11,1 2 IT-PRG1,2,3,4,9	R3.9-12, R4.9-12	A REI.2 N Q.1	B2,4	A2,5	Technical Skills Technology	PC Pro Certification Practiced Exams CompTIA A+ Exam
Students will be provided an overview of networking. Concepts include: Network hardware, networking media, Ethernet, networking addressing, IP configuration, protocols, 802.11 wireless, infrared and Bluetooth, internet connectivity,	CompTIA 2.8, 2.9, 2.1, 2.2, 2.3, 2.4, 2.5, 2.7, 2.6	IT11,1 2 IT-PRG1,2,3,4,9	R3.9-12, R4.9-12	A REI.2 N Q.1	B2,4	A2,5	Technical Skills Technology	PC Pro Certification Practiced Exams CompTIA A+ Exam
Students will learn about selecting and installing printers. Concepts include: Configuring, printing and printer maintenance	CompTIA 4.1, 4.2, 4.3	IT11,1 2 IT-PRG1,2,3,4,9	R3.9-12, R4.9-12 R6.9-12	A REI.2 N Q.1	B2,4	A2,5	Technical Skills Technology	PC Pro Certification Practiced Exams CompTIA A+ Exam
Students will apply the knowledge they have obtained concerning CTSO (i.e. competitive			W1.9-12				Technical Skills	Portfolio

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events, technical national certification, internships, community service projects)		CRP1,2,7,8,9,11	W4.9-12 W6.9-12		B2,4 E7,8	A2,5	Community Planning Management	

Instructional Resources

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

2012 TestOut Corporation (R 11/12)

LabSim PC PRO http://www.testout.com/docs/lesson-plans/pcpro_nf_arl-p.pdf?sfvrsn=4

CompTIA A+ (2012 Edition) Exam 220-801 Objectives: <http://certification.comptia.org/>