

PC HARDWARE FUNDAMENTALS

Pierce County Careers Connection Dual Credit Articulation Agreement

Upon completion of high school courses equivalent to the following competencies:

- Demonstrate the ability to:
 - Diagram, label and describe the functions of:
 - Components inside the system unit.
 - Features of the motherboard and its key components.
 - Assemble and disassemble PC's.
 - Explain the subsystems within the PC and how they interact.
 - Describe and document the boot process.
 - Describe how conflicts arise between components in a PC.
 - Install RAM
 - Describe and demonstrate the use of safety precautions when working with PC's.
 - Format and partition hard drive.
 - Load and configure operating system.
 - Install and configure hardware components such as:
 - Motherboard
 - Hard drive
 - Cards
 - Mice
 - Printers
 - Other peripherals
 - Access and configure the CMOS set up.
 - Use available resources to determine a PC's component information such as size of hard drive, amount of RAM, and type of processor.
 - Perform routine preventative maintenance for hardware.
 - Install and configure components such as modems, CD-ROM drives and hard disks.
 - Perform advanced preventative maintenance for hard disks using utilities software.
 - Research and document solutions to error messages or symptoms of a hardware problem.
 - Diagnose and troubleshoot common problems relating current operating systems.
 - Compare unique hardware configurations of PCs to:
 - Servers
 - Dual boot systems
 - Thin clients.
 - Use personal qualities, attitudes and key skills that foster successful relationships with customers.
- Problem Solving/Troubleshooting
 - Identify and use appropriate communication tools and methods to correctly isolate and identify technical problems.
 - Identify and use a wide range of resources and techniques to identify technical problems and develop and implement resolution plans.
- Project Management
 - Coordinate the use of resources with other team members and groups.

A student earning a "C" grade or better may earn college credit at one of the following colleges:

<u>College</u>	<u>Course</u>	<u>Credits</u>
Bates Technical College	INFO 105 (CIP Code: 15.1202)	5
Clover Park Technical College	NOS 100 (CIP Code: 47.0104)	4