CONVENTIONAL MACHINING
ARTICULATION

Pierce County Careers Connection
Dual Credit Articulation Agreement

Upon completion of a full year of high school or equivalent to the following competencies:

☐	Demonstrate various tool-holding and work-holding devices on the lathe.
	Setup and operate a variety of manual lathes, milling machines, and precision grinding machines to produce parts to specifications.
	Accurately calculate lathe speeds, feeds and machining time.
	Demonstrate proper workpiece and tooling setup for thread cutting on the lathe.
	Apply speeds and feeds for various cutting tools and materials.
	List primary methods of turning tapers and their benefits and drawbacks.
	Setup and operate a variety of manual lathes, milling machines, and precision grinding machines to produce parts to specifications.
	Demonstrate understanding of various cutting tools, tool-holding, and work-holding devises on a milling machine.
	Accurately square a block on the milling machine.
	Use geometric dimensioning and tolerancing symbols as applied to engineer drawings.
	Demonstrate respectful team member skills in a diverse classroom/lab environment.
	Apply safety procedures appropriate to running a modern machine shop.

A student earning a “C” grade or better may earn college credit at the following college:

College	Course	Credits
Bates Technical College	MACH 160 (CIP Code: 48.0501)	5

Created: 10/2020