## **ENGINE LATHE OPERATIONS I**

Pierce County Careers Connection Dual Credit Articulation Agreement

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Lathe Apply safe work habits. Check lathe to determine all safety devices are in place and use machine safely. Identify machine components. Plan the sequence of operations and machine round work mounted between lathe centers. Plan the sequence of operations and machine round work mounted between lathe centers. Plan the sequence of operations and machine round work mounted in a lathe chuck. Plan the sequence of operations and machine flat work pieces. Identify and state purpose of the main operative parts of the lathe. Set the lathe to run at any required speed. Set the lathe to run at any required speed. Set the lathe to run at any required speed. Set the proper feed for the cut required. Measure using micrometers with .0005 inch. Measure using calipres within .005 inch. Machine outside diameter and inside diameter within ± .002 inch. Sharpen High Speed Steel right and left-hand cutting tools. Perform knurting operations. Mount and machine work in a three-jew chuck. Mount and machine work in a three-jew chuck. Mount and machine work in a three-jew chuck. Drill small and large diameters holes in a lathe. Ream holes to an accurate size and good surface finish. Use a tap to produce an internal thread that is concentric with the outside diameter. Machine threads to correct size and finish. Identify and state purpose of self-holding and self-releasing tapers. Cut short, steep tapers using the compound. Calculate and cut tapers on work between centers by offsetting the tailstock. Calculate and machine tapers with a taper attachment. Recognize and state the purposes of six common thread forms. Set up a lathe to cut inch external Unified threads.
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## A student earning a "B" 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	MACH 114	4
Clover Park Technical College	MCH 117	6
-	CIP Code: 48.0501	