COURSE OUTLINE

DIVISION: Workforce Development

COURSE: CNC 1206 CNC Turning Center Operations II

Effective Date:	Fall 2024	
Credit Hours:	3	
•	t apply or mark "Nite(s): None	lone" where appropriate:
	it by assessment ase describe:	or other measure? ☐ Yes ⊠ No
Corequisite(s): None		
Pre- or Co	orequisite(s): CN	C 1204
Consent of	of Instructor: 🗌 Y	′es ⊠ No
Delivery Method		 2 Contact Hours (1 contact = 1 credit hour) 0 Contact Hours (1 contact = 1 credit hour) 2 Contact Hours (2-3 contact = 1 credit hour) 0 Contact Hours (3 contact = 1 credit hour)
Offered: 🗵 Fall	⊠ Spring	☐ Summer

CATALOG DESCRIPTION and IAI NUMBER (if applicable):

This course is a continuation of CNC Turning Center Operations I (CNC 1204). The student will learn how to control quality, basic and advanced setup skills, and advanced programming skills.

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ACCREDITATION STATEMENTS AND COURSE NOTES:

None

COURSE TOPICS AND CONTENT REQUIREMENTS:

- 1. Safety
- 2. Video instruction
- 3. Computer simulation
- 4. Sequence of operations
- 5. Composition of Program
- 6. Program loading
- 7. Reading and interpreting action codes
- 8. Verification and editing programs
- 9. Routine maintenance

INSTRUCTIONAL METHODS:

- 1. Lecture
- 2. Video Demonstration
- 3. Practical applications
- 4. Individualized instrumentation
- 5. Hands-on lab work
- 6. Master Task on-line lectures/test

EVALUATION OF STUDENT ACHIEVEMENT:

- 1. Problem solving
- 2. Skill proficiency
- 3. Technical knowledge

INSTRUCTIONAL MATERIALS:

Textbooks

McGraw-Hill Machining and CNC Technology

Resources

Haas CNC reference guide Haas mill programing workbook Power point slides Example Programs

LEARNING OUTCOMES AND GOALS:

Institutional Learning Outcomes 1) Communication – to communicate effectively. 2) Inquiry – to apply critical, logical, creative, aesthetic, or quantitative analytical reasoning to formulate a judgement or conclusion. 3) Social Consciousness – to understand what it means to be a socially conscious person, locally and globally. 4) Responsibility – to recognize how personal choices affect self and society.

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Course Outcomes and Competencies

- 1. The student will be able to write a part program.
- 2. The student will be able to install and set tooling in the Lathe Turret.
- 3. The student will demonstrate proper workplace loading procedures.
- 4. Proper loading of programs into the machine control will be demonstrated by the student.
- 5. Reading and interpretation of action codes will be performed by the student.
- 6. The student will verify and edit programs.
- 7. The student will recognize tool wear and replace tools.
- 8. The student will demonstrate adjustment to speed and feed.

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