

Montgomery County Community College
WDCBC 3505
Machine-CNC One-On-One Coaching
0-16-0

Course Description:

The training is for a newly hired machinist with individualized training and coaching on CNC Lathe and Mill machines. The student will also learn about measurement, blueprints, coding and machine set up.

Requisites:

Previous Course Requirements

None

Previous or Concurrent Course Requirements

None

Course Comment(s)

None

LEARNING OUTCOMES Upon successful completion of this course, the student will be able to:	LEARNING ACTIVITIES	EVALUATION METHODS
1. Blueprint reading & Measurement	Lecture and demonstration for – understanding blueprints, production design and use of technology with blueprints	Students will have to demonstrate knowledge for the learning outcome areas both written and verbal.
2. Lathe & Mill Machine setup and operation	Lecture and demonstration for– preparation, setup, startup and operation of both HAAS Lathe & Mill CNC machines	Students will have to demonstrate knowledge for the learning outcome areas both written and verbal
3. CNC-Fundamentals	Lecture and demonstration for– tolerances, indicators, gauges, coding and programming	Students will have to demonstrate knowledge for the learning outcome areas both written and verbal
4. Tool Usage	Lecture and demonstration for–use of measurement tools including calipers & micrometers	Students will have to demonstrate knowledge for the learning outcome areas both written and verbal

At the conclusion of each semester/session, assessment of the learning outcomes will be completed by course faculty using the listed evaluation method(s). Aggregated results will be submitted to the Associate Vice President of Academic Affairs. The

benchmark for each learning outcome is that *70% of students will meet or exceed outcome criteria.*

Sequence of Topics:

1. Course Introduction
2. Blue Print reading & Measurement
3. HAAS Lathe & Mill Operation
4. CNC Fundamentals
5. Caliper & Micrometer Usage
6. Course review & testing

Learning Materials:

Amatrol textbooks, instructor's learning materials including slides and handouts, tools and software

Other learning materials may be required and made available directly to the student and/or via the College's Libraries and/or course management system.

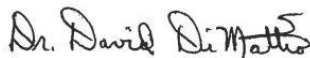
Course Approval:

Prepared by: Gary Hines

Date: 11/12/18

Dr. David DiMattio, Vice President, Workforce Development & the West Campus

Compliance Verification:



Date: 11/12/18

Revised by:

Date: 11/12/18

Compliance Verification:

Date: 11/12/18

This course is consistent with Montgomery County Community College's mission. It was developed, approved and will be delivered in full compliance with the policies and procedures established by the College.