



Operation of CNC Machining Centers MCHN 2334

“Northeast Texas Community College exists to provide responsible, exemplary learning opportunities.”

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Office Hours	Monday	Tuesday	Wednesday	Thursday	Friday
	2-9 PM	2-9 PM	2-9 PM	2-9 PM	By Appointment

Course Description: A study of CNC operations with an emphasis on vertical machining centers.

Required Textbook(s): LearnAmatrol.com Subscription

Student Learning Outcomes: Set up and operate CNC machining centers; set machine and tool offsets for machining operations; and edit the program as required.

Student Responsibilities/Expectations:

1. Students are expected to demonstrate Safety in all classes and lab activities.
2. Students must complete ITTC Safety Orientation and OSHA Safety Course before starting their Skills assessment. Student must complete the online Safety Course WXS105-XX00XEN-E1 - Lockout / Tagout Prior to starting Motor Controls.
3. Students will be taught in a competency-based, self-paced environment with the instructor serving as a learning facilitator.
4. Students will complete both a Quiz covering the objectives contained in the LAPs, and Skills Assessments that demonstrate mastery of the skills taught in the LAPs.
5. In order to be successful, students will complete this course in forty-two (42 weeks) or will be dropped from the course.
6. Students must clock in and be present a minimum of 4 hours per week at the ITTC while performing course work.
7. Failure to attend over a two week period without communication with the instructor will result in the student being dropped from the course.
8. A review will be provided to all students periodically and counseling will be provided those students who are progressing in a less than satisfactory manner.
9. Students receiving financial assistance must complete courses during the semester they are enrolled

Instructor – Student Relationship:

Your instructor can be your greatest resource. Your instructor is here to assist you in learning the material and helping you earn the grade you wish to earn in the course. **This is a commitment by your instructor.** Please utilize this resource by contacting your instructor with any matter you feel they can assist you with, both within this class or your college success in general. It is your responsibility to learn the material, but this can often be best accomplished by initiating contact with the instructor on topics you need clarification or further assistance. Please do this!

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Evaluation and Grading Criteria:

Self-reviews and skill activities are a regular part of the Learning Activity Packets intended to enable the student to evaluate his/her own progress. Quiz assessments and Skills Assessments will be used upon the completion of each Module. Course Participation and Safety is earned by displaying safety practices while working at the ITTC a minimum of 4 hours per week.

Grades of A, B, C, D, and F will be determined by the student's achievement of a certain percentage of possible points based on the below listed categories.

<u>Assignments</u>	<u>Percentage</u>
Online Quiz	40%
Skills Assessment	50%
Course Participation and Safety	10%

The letter grade is based on the following Grading Scale:

89.5%-100% = A

79.5%-89.4% = B

69.5%-79.4% = C

59.5%-69.4% = D

0-59.4% = F

Quizzes and Assignments:

Students must complete Quizzes and Hands-on Skills in all of the following:

- Milling Machine Operation
- Milling Production □ Turning Operation
- Turning Production
- Introduction to CNC Machining
- CNC Mill Operation

- CNC Program Operation
- CNC Turning Operation
- CNC Grinding Operation
- CNC Machine Troubleshooting and Maintenance
- Introduction to SPC
- Control Charts

Withdrawal Procedures:

Withdrawal requests MUST BE initiated by the student. Requests for withdrawal become official and effective the date they are received in the records office. Students who stop coming to class (that is, stop participating on the class website) but fail to drop the course will earn an “F” for the course.

NTCC Academic Honesty Statement:

“Students are expected to complete course work in an honest manner, using their intellects and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. NTCC upholds the highest standards of academic integrity. This course will follow the NTCC Academic Honesty policy stated in the Student Handbook.”

Academic Ethics

The college expects all students to engage in academic pursuits in a manner that is beyond reproach. Students are expected to maintain complete honesty and integrity in their academic pursuit. Academic dishonesty such as cheating, plagiarism, and collusion is unacceptable and may result in disciplinary action. Refer to the student handbook for more information on this subject.

ADA Statement:

It is the policy of NTCC to provide reasonable accommodations for qualified individuals who are students with disabilities. This College will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student’s responsibility to request accommodations. An appointment can be made with John Coleman, Academic Advisor/Coordinator of Special Populations located in the College Connection. He can be reached at 903-434-8104. For more information and to obtain a copy of the Request for Accommodations, please refer to the NTCC website - Special Populations.

Family Educational Rights and Privacy Act (FERPA):

The Family Educational Rights and Privacy Act (FERPA) is a federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education. FERPA gives parents certain rights with respect to their children's educational records. These rights transfer to the student when he or she attends a school beyond the high school level. Students to whom the rights have transferred are considered "eligible students." In essence, a parent has no legal right to obtain information concerning the child's college records without the written consent of the student. In compliance with FERPA, information classified as "directory information" may be released to the general public without the written consent of the student unless the student makes a request in writing. Directory information is defined as: the student's name, permanent address and/or local address, telephone listing, dates of attendance, most recent previous education institution attended, other information including major, field of study, degrees, awards received, and participation in officially recognized activities/sports.