

COMPUTERIZED MANUFACTURING & MACHINING TECHNOLOGY

Work activities in machine shops involve applying knowledge of machine capabilities, the properties of material, and shop practices to set up and operate various machines.

Through classroom instruction, demonstration, and hands-on experience, students will learn to position work pieces, adjust machines, and verify the accuracy of machine functions and finished products.

ACTC offers two diplomas and three certificates to prepare graduates for machine shop employment. Certificate and diploma credits may be applied toward an Associate in Applied Science Degree in General Occupational/Technical Studies.

COURSES OF STUDY

- Basic Machining
- Intermediate Machining
- Advanced Machining (includes mill, lathe, drill, surface grinding)
- Manual CNC Machining
- Intermediate CNC
- Advanced CNC (CNC includes CNC Mill, CNC Lathe Metrology/Control Charts)
- Blueprint Reading
- Related Units
- Technical Mathematics
- Computer Fundamentals
- Applied Machining

FOR MORE INFORMATION:



ASHLAND.KCTCS.EDU
CLICK >> EDUCATION & TRAINING
>> FIND YOUR PROGRAM



STEPHEN MUSIC
PROGRAM COORDINATOR
SMUSIC0015@KCTCS.EDU



(606) 326-2471 OR (606) 326-053



TECHNOLOGY DRIVE CAMPUS
902 TECHNOLOGY DRIVE, GRAYSON, KY 41143



GAINFUL EMPLOYMENT INFORMATION

For more information about graduation rates, the median debt of students who completed the program, and other important data on this program, visit ACTC's website at Ashland.KCTCS.edu/Education-Training/Program-Finder/Gainful-Employment-Disclosures.aspx

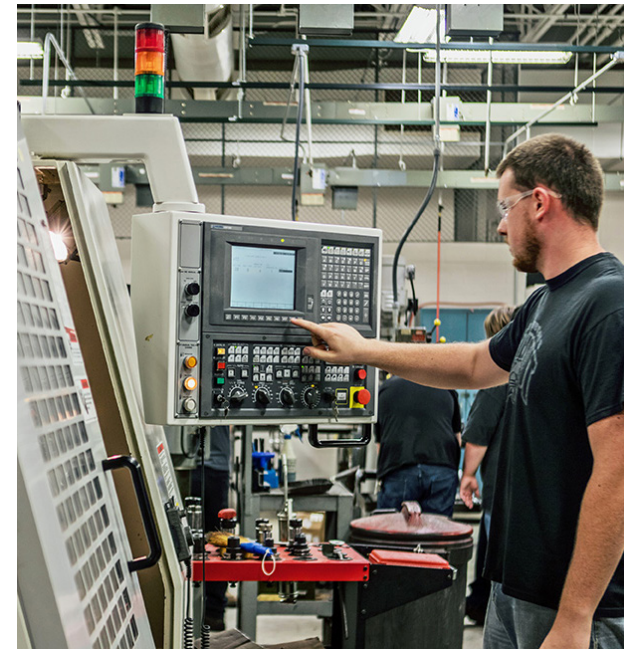
COLLEGE ACCREDITATION

Ashland Community and Technical College is accredited by the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Ashland Community and Technical College. Note: The Commission is to be contacted only if there is evidence that appears to support an institution's significant non-compliance with a requirement or standard.

ACTC IS AN EQUAL EDUCATIONAL AND EMPLOYMENT OPPORTUNITY INSTITUTION.

JULY 2018

COMPUTERIZED MANUFACTURING & MACHINING TECHNOLOGY



ASSOCIATE DEGREE, DIPLOMA AND CERTIFICATE PROGRAMS

Technology Drive Campus



DIPLOMA

CNC MACHINIST

Required	Credit Hours
Area 1: Written Communication, Oral Communications OR Heritage/Humanities	3
Area 2: Social/Behavioral Sciences OR Quantitative Reasoning	3
Subtotal	6

Technical Courses	Credit Hours
Digital Literacy	0-3
BRX 110 Basic Blueprint Reading for Machinist AND	2
BRX 210 Mechanical Blueprint Reading OR	2
BRX 112 Blueprint Reading for Machinist	(4)
CMM 110 Fundamentals of Machine Tools – A AND	3
CMM 112 Fundamentals of Machine Tools – B OR	4
CMM 114 Fundamentals of Machine Tools	(6)
CMM 118 Metrology/Control Charts	3
CMM 120 Applied Machining I AND	3
CMM 122 Applied Machining II OR	4
CMM 124 Applied Machining	(7)
CMM 130 Manual Programming AND	3
CMM 132 CAD/CAM/CNC OR	3
CMM 134 Manual Programming CAD/CAM/CNC	(6)
CMM 210 Industrial Machining I AND	3
CMM 212 Industrial Machining II OR	4
CMM 214 Industrial Machining	(7)
CMM 220 Advanced Industrial Machining I AND	4
CMM 222 Advanced Industrial Machining II OR	2
CMM 224 Advanced Industrial Machining	(6)
CMM 230 Conversational Programming	6
CMM 240 Introduction to 3-D Programming	6
CMM 298 Practicum OR	1
CMM 299 Cooperative Education Program	(1)
Total Diploma Credits	55-58

CERTIFICATES

EXPLORATORY MACHINING

Required	Credit Hours
CMM 110 Fundamentals of Machine Tools – A AND	3
CMM 112 Fundamentals of Machine Tools – B OR	4
CMM 114 Fundamentals of Machine Tools	(7)
Total Certificate Credits	7

MACHINE TOOL OPERATOR I

Required	Credit Hours
Quantitative Reasoning	3
BRX 110 Basic Blueprint Reading for Machinist	2
CMM 110 Fundamentals of Machine Tools – A AND	3
CMM 112 Fundamentals of Machine Tools – B OR	4
CMM 114 Fundamentals of Machine Tools	(7)
CMM 130 Manual Programming OR	3
CMM 134 Manual Programming CAD/CAM/CNC	(6)
Total Certificate Credits	17-19

DIPLOMA

MACHINIST

Required	Credit Hours
Area 1: Written Communication, Oral Communications OR Heritage/Humanities	3
Area 2: Social/Behavioral Sciences OR Quantitative Reasoning	3
Subtotal	6

Technical Courses	Credit Hours
Digital Literacy	0-3
BRX 110 Basic Blueprint Reading for Machinist AND	2
BRX 210 Mechanical Blueprint Reading OR	2
BRX 112 Blueprint Reading for Machinist	(4)
CMM 110 Fundamentals of Machine Tools – A AND	3
CMM 112 Fundamentals of Machine Tools – B OR	4
CMM 114 Fundamentals of Machine Tools	(6)
CMM 118 Metrology/Control Charts	3
CMM 120 Applied Machining I AND	3
CMM 122 Applied Machining II OR	4
CMM 124 Applied Machining	(7)
CMM 130 Manual Programming OR	3
CMM 134 Manual Programming CAD/CAM/CNC	(6)
CMM 210 Industrial Machining I AND	3
CMM 212 Industrial Machining II OR	4
CMM 214 Industrial Machining	(7)
CMM 220 Advanced Industrial Machining I AND	4
CMM 222 Advanced Industrial Machining II OR	2
CMM 224 Advanced Industrial Machining	(6)
CMM 298 Practicum OR	1
CMM 299 Cooperative Education Program	(1)
Total Diploma Credits	43-46

CERTIFICATE

MACHINE TOOL OPERATOR II

Required	Credit Hours
Digital Literacy	0-3
Quantitative Reasoning, Social/Behavioral Science or Natural Science	3
BRX 110 Basic Blueprint Reading for Machinist	2
CMM 114 Fundamentals of Machine Tools OR	7
CMM 110 Fundamentals of Machine Tools – A AND	3
CMM 112 Fundamentals of Machine Tools – B	4
CMM 124 Applied Machining OR	7
CMM 120 Applied Machining I AND	(3)
CMM 122 Applied Machining II	(4)
CMM 130 Manual Programming OR	3
CMM 134 Manual Programming CAD/CAM/CNC	(6)
Total Certificate Credits	25-30

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Application Checklist

1 Submit an Application for Admission, online, at Ashland.KCTCS.edu.

Submit to the Admissions Office:

- 2**
- An official high school transcript, with graduation date, or GED scores
 - Official transcripts from other colleges or universities you have attended, including those for dual credit courses
 - Placement test scores (ACT, KYOTE) or complete placement testing

3 Attend orientation and meet with an advisor to schedule classes.

Financial Aid is available for those who qualify.

- 4**
- Please fill out a FAFSA at www.FAFSA.ed.gov.
 - Please speak with a financial aid specialist to receive counseling, if appropriate.



5 Pay tuition and fees before published cancellation deadlines. More information regarding tuition rates can be found on our website at: Ashland.KCTCS.edu/Affording-College/index.aspx