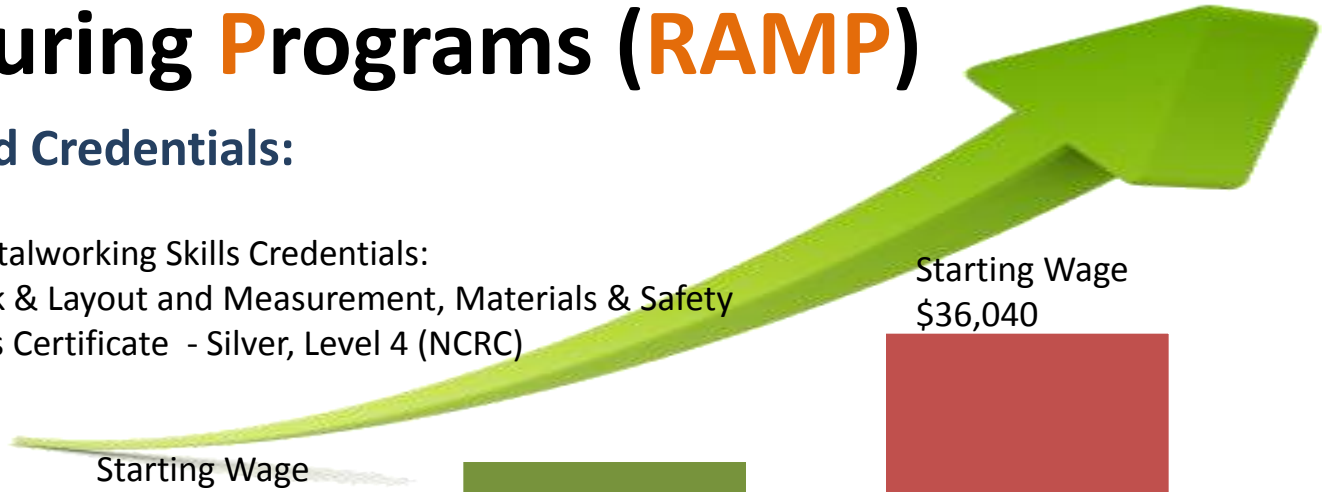
Right Skills Now CNC

Retooling Adults for Manufacturing Programs (RAMP)

Industry-Recognized Credentials:

- ✓ 2 National Institute of Metalworking Skills Credentials:
  Job Planning, Bench work & Layout and Measurement, Materials & Safety
- ✓ National Career Readiness Certificate - Silver, Level 4 (NCRC)
- ✓ OSHA-10 Certification



Right Skills Now CNC

Lorain County Community College

Program Overview:

Short Term Technical Certificate

The Right Skills Now CNC Fast-Track Training Program is focused on the knowledge and skills necessary for employment as a CNC mill or lathe operator. The 16-week classroom training is followed by an 8-week paid internship and is designed for students to obtain high-quality manufacturing jobs. Employers are engaged with students from the beginning by offering plan t tours and interviews for the opportunity to work with them on an 8-week Paid Internship. Program prepares students to earn several industry recognized credentials:

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Occupational Title	Starting Wage:	Annual Job Openings
CNC Machine Tool Operators, Metal/Plastic	$25,760	511
Machinist	$27,300	937
CNC Machine Tool Programmers, Metal/Plastic	$32,860	79
Tool and Die Makers	$36,040	87

Industry Partners:

EMC PRECISION

General Plug & Manufacturing

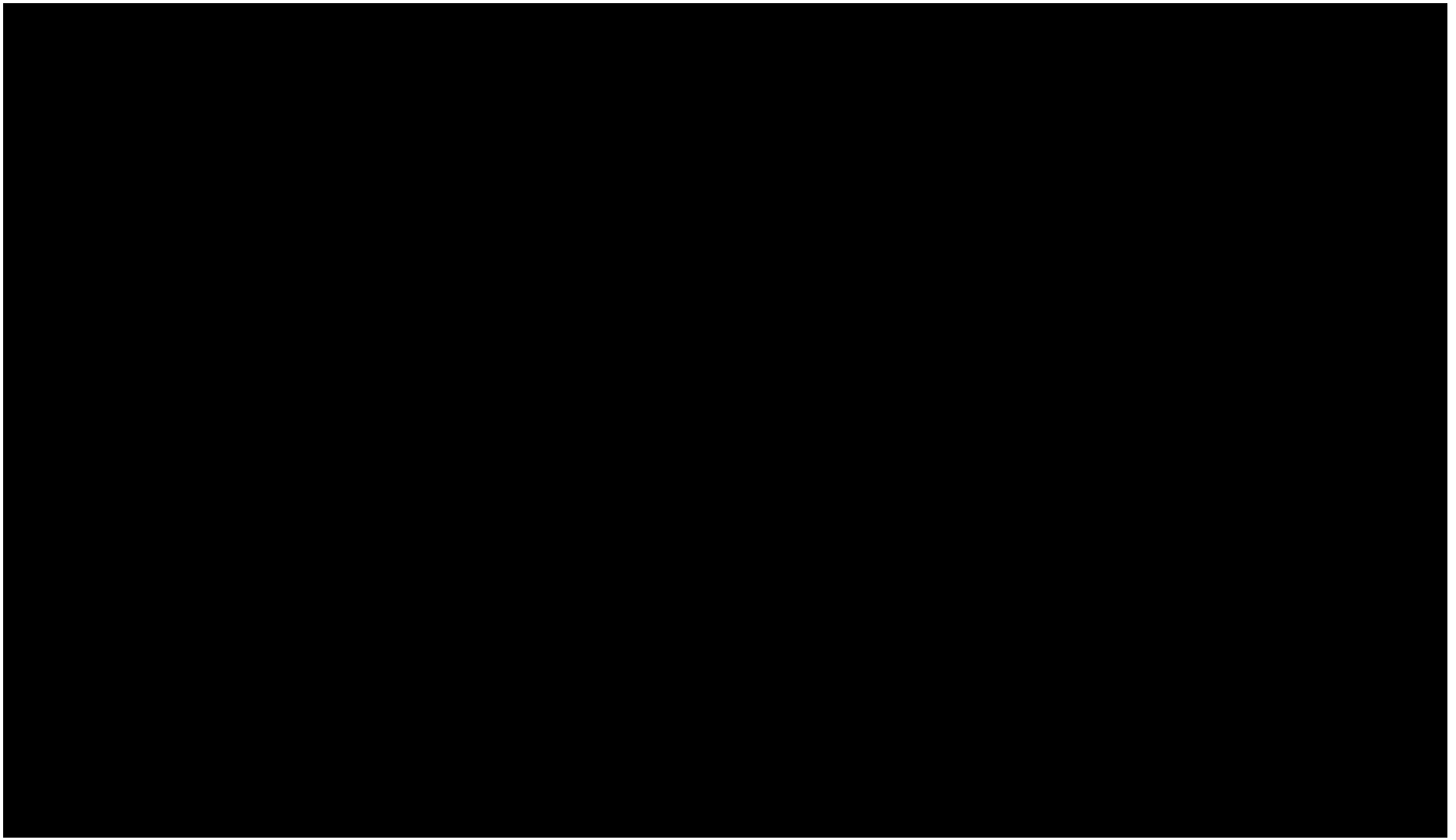
HUMANETICS Innovative Solutions

PLIDCO

Thogus

Data received from OhioMeansJobs.com

Right Skills Now CNC



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Readiness	Short Term Technical Certificate
CORE Career and Occupational Readiness Education in Manufacturing	**RSN CNC #6031** **17 credit hours** **28 non credit contact hours**
	Internship Opportunities

Short-Term Technical Certificate

Lorain County Community College
Manufacturing Engineering Technology
Right Skills Now
Engineering, Business & Information Technologies Division
Short Term Technical Certificate - Curriculum Code 6031

The Right Skills Now program is designed to provide students with the knowledge, skills and competencies necessary to perform as an entry-level CNC technician. Lorain County Community College has articulation agreements with colleges and universities including programs offered by LCCC's University Partnership.

	Course		Course Title	Credits	Contact Hrs.	Lec Hrs.	Lab Hrs.
First Semester							
*	CAMM	111	Introduction to Computer Numerical Control	2	4	1	3
	SAFE	105	General Safety OSHA 10	1	1	1	0
☆	SDEV	101	College 101	1	1	1	0
	SDEV	104	Job Search Strategies	1	1	1	0
	TECN	111	Technical Problem Solving	3	5	2	3
	TECN	115	Industrial Blueprint Reading	2	3	1	2
*	TECN	131	Manufacturing Processes I	3	6	2	4
>	TECN	245	Geometric Dimensioning & Tolerancing	2	2	2	0
				15			
Second Semester							
	CAMM	287	Work Based Learning	2			
				2			
			Total Semester Credit Hours	**17**			

Established March 17
Effective May 17

Notes

1. > Indicates that this course requires a prerequisite.
2. * Indicates that this course requires a prerequisite or may be taken concurrently.
3. This certificate requires completion of the two (2) non-credit courses listed below:
   a) NQUA101 Quality Basics
   b) NTEC 115A NIMS Exam Prep
4. ☆ A student must register for the orientation course when enrolling for more than six credit hours per semester **or** any course that would result in an accumulation of thirteen or more credit hours.

Associate Deg PCG
Template
Version 1.0 - 6/12/13

Schedule – Fall 2017 - Right Skills Now CNC

Fall Full Semester	**Course Name**	**Credits**	**Start Date**	**End Date**	**Days**	**Start Time**	**End Time**
CAMM 111 E P101	Intro to CNC	2	8/28/2017	12/17/2017	T	12:00 PM	12:50 PM
CAMM 111 L P601	Intro to CNC		8/28/2017	12/17/2017	T	1:00 PM	3:30 PM
TECN 131 E P100	Manufacturing Processes	3	8/28/2017	12/17/2017	M,W	12:00 PM	12:50 PM
TECN 131 L P600	Manufacturing Processes		8/28/2017	12/17/2017	M,W	1:00 PM	2:40 PM
NIMS 101	NIMS	0	8/28/2017	12/17/2017	M,W	2:40 PM	2:55 PM
		5					
Fall First Eight Weeks	Course Name	Credits	Start Date	End Date	Days	Start Time	End Time
TECN 111 E P42X	Technical Problem Solving	3	8/28/2017	10/22/2017	M,T,W,R	9:00 AM	9:50 AM
TECN 111 L P62X	Technical Problem Solving		8/28/2017	10/22/2017	M,T,W,R	10:00 AM	11:15 AM
TECN 115 E P42X	Industrial Blueprint Reading	2	8/28/2017	10/22/2017	M, W	3:00 PM	3:25 PM
TECN 115 L P62X	Industrial Blueprint Reading		8/28/2017	10/22/2017	M, W	3:30 PM	4:20 PM
SDEV 101 P122 - ???	College 101	1	8/28/2017	10/22/2017	F	1:00 PM	2:40 PM
		6					
Fall Second Eight Weeks							
NQUA 101	Quality Basics	0	10/23/2017	12/17/2017	T	9:00 AM	11:30 AM
TECN 245	G, D, & T	2	10/23/2017	12/17/2017	T,R	4:00 PM	5:35 PM
SDEV 104 P???	Job Search Strategies	1	10/23/2017	12/17/2017			
		3					
Fall 6 Weeks							
SAFE 105**	General Safety OSHA 10	1	10/26, 11/2, 11/9, 11/16, 11/30, 12/7		R	1:00 PM	3:05 PM
		1					
Spring Eight Week Internship							
CAMM 287 P42X	Work-Based Learning	2	1/16/2018	3/9/2018	Arranged	Arranged	Arranged
		2					
Classroom Totals:		17					
Other scheduled dates:							
Employer Meet & Greet	-	0	TBD	TBD	TBD	TBD	TBD
NTEC 114	NIMS Registration	0	TBD	TBD	TBD	TBD	TBD
Work-Based Learning Interviews (six each day)		0	TBD	TBD	TBD	TBD	TBD
NTEC 115A	NIMS Exam Prep	0	TBD	TBD	TBD	TBD	TBD
NTEC 115B	NIMS Exams	0	TBD	TBD	TBD	TBD	TBD
*Industry Tour Dates/Options:			TBD	TBD	TBD	TBD	TBD
SDEV104 Resume Critiques (30 mins each):					Resume Critiques held in AT building; two students for each time slot		
SDEV104 Mock Interviews (One hour each):					Mock Interviews held in Career Services; four students for each time slot		

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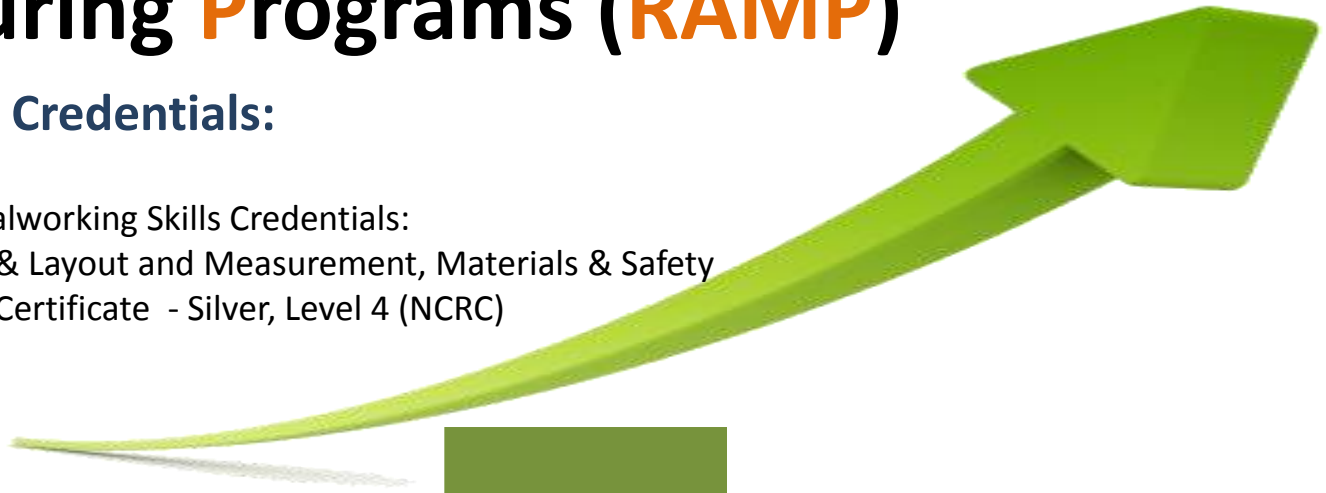

Readiness	Short Term Technical Certificate	One Year Technical Certificate
CORE Career and Occupational Readiness Education in Manufacturing	**RSN CNC #6031** **17 credit hours** **28 non credit contact hours**	**Computer-Aided Machining Operator #6112** **39 credit hours**

Internship Opportunities

One-Year Technical Certificate

Lorain County Community College
Manufacturing Engineering Technology
Computer-Aided Machining Operator
Engineering Technologies Division
One Year Technical Certificate - Curriculum Code 6112

Computer Aided Machining (CAM) Operator is a one-year technical certificate program designed to provide students with knowledge, skills and competencies in programming, set-up and operating CNC machines, in a manufacturing setting. Lorain County Community College has articulation agreements with colleges and universities including programs offered by Lorain County Community College's University Partnership.

	Course		Course Title	Credits	Contact Hrs.	Lec Hrs.	Lab Hrs.
Fall Semester							
*	CADD	111	Introduction to Computer Aided Drafting	2	4	1	3
	MTHM	121	Technical Mathematics I	4	4	4	0
☆	SDEV	101	College 101	1	1	1	0
	TECN	111	Technical Problem Solving	3	5	2	3
	TECN	115	Industrial Blueprint Reading	2	3	1	2
	TECN	131	Manufacturing Processes I	3	6	2	4
			Arts and Humanities Elective **	3			
				18			
Spring Semester							
>	CAMM	111	Introduction to Computer Numerical Control	2	4	1	3
	ENGL	161	College Composition I	3	3	3	0
	QLTY	121	Quality Assurance Techniques (SPC)	2	4	1	3
*	TECN	121	Fluid Power	3	4	2	2
>	TECN	132	Manufacturing Processes II	3	6	2	4
>	TECN	245	Geometric Dimensioning and Tolerancing	2	2	2	0
			Social Science Elective ***	3			
				18			
Summer Semester							
>	CAMM	215	Advanced CNC Milling Machines OR	3	6	2	4
>	CAMM	225	Advanced CNC Lathes		5	2	3
				3			
			Total Semester Credit Hours	**39**	58		

Established	Oct-90
Revised	Jul - 12
Effective	Aug-12

Notes

1. > Indicates that this course requires a prerequisite.
2. OR Indicates that a student may select either course which may have an effect on the total credit hours.
3. * Indicates that this course requires a prerequisite or may be taken concurrently.
4. ** Courses selected from the following list: ARTS 243, 244, 245, 246, 254; ENGL 251, 252, 253, 254, 255, 257, ENGL 259, 261, 262, 265, 266, 269; HUMS 151, 161, 261, 262, 271, 274; MUSC 262; PHLY 165, 262; RELG 181, 261, 262; THTR 151.
5. *** Course selected from the following list: HSTR 151, 152, 161, 162, 171, 252, 267; PLSC 156; PSYH 151; SOCY 151.
6. ☆ A student must register for the orientation course when enrolling for more than six credit hours per semester **or** any course that would result in an accumulation of thirteen or more credit hours.

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Readiness	Short Term Technical Certificate	One Year Technical Certificate	Associate Degree
CORE Career and Occupational Readiness Education in Manufacturing	**RSN CNC #6031** **17 credit hours** **28 non credit contact hours**	**Computer-Aided Machining Operator #6112** **39 credit hours**	**Manufacturing Engineering Computer-Aided Machining Major #6213** **61 credit hours**

Internship Opportunities

Associate of Applied Science

Lorain County Community College
Manufacturing Engineering Technology
Computer Aided Machining Major
Engineering Technologies Division
Associate of Applied Science - Curriculum Code 6213

The Computer Aided Machining Major prepares the student with the knowledge, skills and hands-on experience needed to program, set-up and operate Computer Numerical Controlled (CNC) machines, specifically the Machining and Turning Center. Lorain County Community College has articulation agreements with colleges and universities including programs offered by LCCC's University Partnership.

Course		Course Title	Credits	Contact Hrs.	Lec Hrs.	Lab Hrs.
First Year						
Fall Semester						
* CADD	111	Introduction to Computer Aided Drafting	2	4	1	3
ENGL	161	College Composition I	3	3	3	0
MTHM	121	Technical Mathematics I	4	4	4	0
☆ SDEV	101	College 101	1	1	1	0
TECN	111	Technical Problem Solving	3	5	2	3
TECN	115	Industrial Blueprint Reading	2	3	1	2
* TECN	131	Manufacturing Processes I	3	6	2	4
			18			
Spring Semester						
> CAMM	111	Introduction to Computer Numerical Control	2	4	1	3
EMCH	112	Engineering Materials	3	4	2	2
> ENGL	164	College Composition II with Technical Topics	3	3	3	0
> MTHM	122	Technical Mathematics II	3	3	3	0
QLTY	121	Quality Assurance Techniques (SPC)	2	4	1	3
> TECN	132	Manufacturing Processes II	3	6	2	4
			16			
Second Year						
Fall Semester						
> CAMM	215	Advanced CNC Milling Machines	3	6	2	4
> PHYC	150	General Physics I	4	6	3	3
* TECN	121	Fluid Power***	3	4	2	2
		Arts and Humanities Elective ^	3			
			13			
Spring Semester						
> CAMM	225	Advanced CNC Lathes	3	5	2	3
> CAMM	235	CAD-CAM Graphics	3	6	2	4
ELCT	111	Electrical Circuits I	3	5	2	3
> TECN	245	Geometric Dimensioning and Tolerancing	2	2	2	0
		Social Sciences Elective**	3			
			14			
		Total Semester Credit Hours	**61**			

Established	Oct-90
Revised	Apt 15
Effective	May 16

Notes

1. > Indicates that this course requires a prerequisite.
2. * Indicates that this course requires a prerequisite or may be taken concurrently.
3. ^ Courses selected from the following list: ARTS 243, 244, 245, 246, 254; ENGL 251, 252, 253, 254, 255, 257, ENGL 259, 261, 262, 265, 266, 269; HUMS 151, 161, 261, 262, 271, 274; MUSC 262; PHLY 165, 262; RELG 181, 261, 262; THTR 151.
4. ** Course selected from the following list: HSTR 151, 152, 161, 162, 171, 252, 267; PLSC 156; PSYH 151; SOCY 151.
5. *** Indicates that a student may substitute Work-Based Learning (CAMM 287, 288, and/or 289) for the equivalent number of credit hours for this course.
6. ☆ A student must register for the orientation course when enrolling for more than six credit hours per semester **or** any course that would result in an accumulation of thirteen or more credit hours.