

# CNC Boot Camp

## Program Overview and Outcomes

### The Program



CNC boot camp is a 14-week certificate program. The boot camp evolved through a partnership between Gateway Technical College, the Racine County Workforce Development Center, the Kenosha County Job Center and area employers as a means to meet the demand for skilled CNC operators in the tri-county Gateway district. The boot camp is scheduled as a 5-day/40-hrs per week program. After successfully completing the program students are ready to be hired as CNC operators.

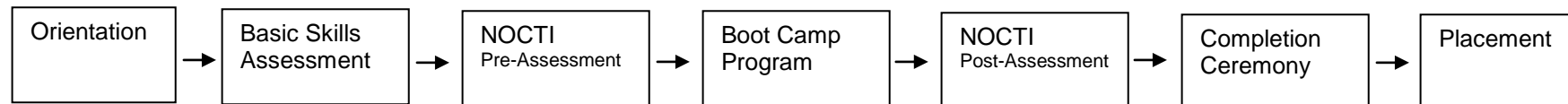
### Curriculum

Course		Credits	Lecture Hrs	Lab Hrs
Intro to CNC/Support Equipment Basics	420-342	1	--	36
CNC Machine Tool Operation	420-343	4	--	144
CNC Offsets and Operations	420-344	1	36	--
Gauging/Inspection	420-345	2	36	36
Intro. to Manufacturing Excellence	623-146	2	18	36
Manufacturing Shop Safety	623-147	1	18	--
Blueprint Reading	421-376	2	36	36
Applied Mathematics I	804-370	2	72	--
Boot camps 1-4, 7, 9-10 held at Racine campus; 5-6 finished at Lakeview				

### Instructors

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The CNC boot camp was designed for dislocated or underemployed workers. Recruitment for the program has been done through the Racine County Workforce Development Center and the Kenosha County Job Center. The recruitment and enrollment process includes:



### Funding Sources

Current cost - \$2,700 per student

- WIA grants
- Dislocated Worker Training grants
- Other grants
- Federal financial aid
- Employer-funded

### Case Management

Employment Consultant at RCWDC:

- Identify and assist students with barriers to success
- Track attendance
- Employment preparation
- Job retention/follow-up

### Skills Validation

**NOCTI** - The boot camp assesses skills using the National Occupational Competency Testing Institute (NOCTI) Precision Machining Assessment. The assessment consists of 154 multiple-choice questions. Students take a pre-assessment before enrollment in Boot Camp, then a post-assessment after completing the Boot Camp.

**MSSC** - Beginning with boot camp 7 the program integrated Manufacturing Skills Standards Council (MSSC) Credentialing in Safety.

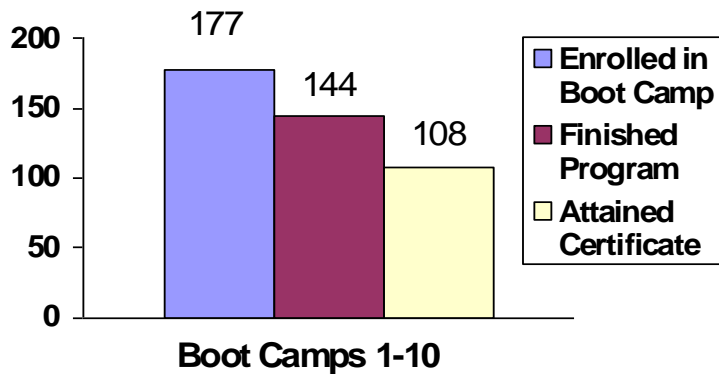
**CCMS** - Beginning with boot camp 7 the program integrated Critical Core Manufacturing Skills (CCMS) to measure skills in productivity, problem solving, teamwork and adaptability.

## Enrollments

### Boot Camp Enrollments

		enrolled	finished
Boot Camp 1	January 3 - April 15, 2005	17	14
Boot Camp 2	May 2 - August 5, 2005	20	15
Boot Camp 3	September 12 - December 16, 2005	18	18
Boot Camp 4	March 6 - June 9, 2006	20	15
Boot Camp 5	September 13 - December 15, 2006	18	18
Boot Camp 6	Nov. 7, 2006 - February 16, 2007	20	13
Boot Camp 7	May 7 - August 10, 2007	14	14
Boot Camp 8	April 14 - July 18, 2008	17	10
Boot Camp 9	September 2 - Dec. 5, 2009	16	11
Boot Camp 10	Dec. 8, 2008 - March 27, 2009	17	16
		177	144

Certificates are awarded to students attaining a "C" or better in each course.



### Number Participants Obtaining Skills Certifications Boot Camps 7-10 (both certifications began with Boot Camp 7)

MSSC: 34

CCMS: 30

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[www.gtc.edu/cncbootcamp](http://www.gtc.edu/cncbootcamp)

## Employment Outlook, Employment Tracking

### CNC Employment\*

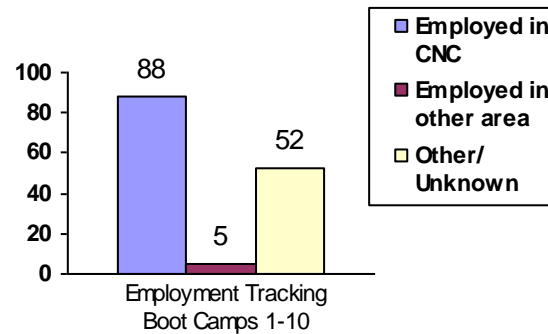
- Number of CNC jobs in workforce development area: 630
- Number of CNC jobs in surrounding counties: 2,480

**Average local starting salary of boot camp participants: \$12/hr.**

\*at time of boot camp inception

Source: Wisconsin Dept. of Workforce Development.

### Post-Boot Camp Employment



**Note:** Employment figures are for participants that respond to post-boot camp tracking, and are accurate at the time information is provided, and do not necessarily reflect the actual number employed in CNC today.

### Companies Hiring Boot Camp Participants (partial list)

A&E Hand Tools	ISP Stitching & Bindery
American Metal Technologies	Kirsan Engineering
B&B Products	Micro Precision Products
Bombardier	Milwaukee Gear
Bothe Associates	National Technologies
Cabat Inc.	Northern Gear
Case New Holland	Petersen Machine
Diversified Tooling Innovations	Pioneer Products
Edstrom Industries	Poclain Hydraulics
Excel Tool	Premier Aluminum
GA Precision Machining	R&B Grinding
Gautier Biomedical	Summit Tool Works
General Thermo Dynamics	Superior Machine
Gormac	T&K Specialty Products
Grove Gear	Thermal Transfer
Horizon Machine, Inc.	Twin Disc
Hypro	Winona Pattern & Mold
InSinkErator	Wenth Davidson Engineering