



Machine Tool Operation - CNC

**Wisconsin Indianhead Technical College
31-444-1 One-Year Technical Degree**

**2019
Program Review**

ACADEMIC PROGRAM REVIEW PROFILE

Program Number & Name: 31-444-1 Machine Tool Operation-CNC		
Program Academic or Assistant Dean	Title and Location	Phone and e-mail
Nancy Cerritos	Dean, Academic Programming	Ext. 4270 nancy.cerritos@witic.edu
Team Lead(s)	Title and Location	Phone and e-mail
<i>Example:</i>	<i>Welding Faculty Member</i>	<i>Ext. 9999</i>
<i>Bill Smith</i>	<i>New Richmond</i>	<i>bill.smith@witic.edu</i>
Richard Becker	CNC Machine Tool Operation Faculty Member	Ext 5209 Richard Becker@witic.edu
Team Members	Title and Location	Phone and e-mail
Deb Kutrieb	Associate Dean, RL Region	Ext 5219 Deb.Kutrieb@witic.edu
Tim McRaith	Communications Faculty	Ext. 5379 Tim. Mcraith@witic.edu
Aaron Stout	Counselor, RL Campus	Ext. 5200 Aaron.stout@witic.edu
Zack Pittman	Current CNC MTO student	pittmanzf@my.witic.edu
Roger Norberg	President, Thomas Precision, Inc.	715-234-8827 roger.norberg@tpm-inc.com
Brenda Kretschmar	Manager, Curriculum and Assessment	Ext. 2207 brenda.kretschmar@witic.edu
Christy Roshell	Curriculum Coordinator	Ext 5419 Christy.Roshell@witic.edu
<p style="color: red;">**If you have more than 8 team members, right click within the member table above and choose insert row above or below.</p>		
Self-Study Areas:		

Required Elements: Analysis of trends from Program Effectiveness Data Profile, Analysis of results of previous program improvement plans, Progress/results of TSA (including program & employability essentials)	
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Choose from a minimum of 2 of the following other areas to study	<input type="checkbox"/> Academic Advising <input type="checkbox"/> Accreditation/National or State Standards, Regulations, Compliance <input type="checkbox"/> Advisory Committees <input type="checkbox"/> Assessment of Student Learning <input type="checkbox"/> Budgeting Efficiencies/Costs per FTE <input type="checkbox"/> Career Outlook/Future Occupational Trends <input type="checkbox"/> Career Pathways <input type="checkbox"/> Collaboration/Partnerships <input checked="" type="checkbox"/> Curriculum Currency/modifications <input type="checkbox"/> Delivery Methods/Distribution of Offerings/Scheduling <input checked="" type="checkbox"/> Dual Enrollment <input type="checkbox"/> Equipment <input type="checkbox"/> Facilities <input type="checkbox"/> Faculty Credentialing/Development Needs <input type="checkbox"/> Online/Technology <input type="checkbox"/> Recruitment <input type="checkbox"/> Other
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Program Information:	
Capacity (new students admitted/year):	16
Number of Faculty:	FT: <input checked="" type="checkbox"/> 1 PT: <input type="checkbox"/>
Statewide Curriculum:	Yes: <input type="checkbox"/> No: <input type="checkbox"/>
Program Accredited by:	N/A
Date of Last Accreditation	N/A
Date of Next Accreditation	N/A
Is a visit required? If so, when is the next visit?	N/A
Program Licensed by:	
Date of Last Licensing:	N/A
Date of Next Licensing:	N/A
Is a visit required? If so, when is the next visit?	N/A
Please list other program and individual association and organizational memberships:	

SELF-STUDY CATEGORY RESULTS

Program and Category			
Program: Machine Tool Operation - CNC			
Category: Analysis of Trends from Program Data Profile			
Resources Contact(s) for this Category:			
<p style="text-align: center;">Strengths</p> <ul style="list-style-type: none"> · Increase 6.8% in the machining industry by 2023 · Graduate placement data is 100% - students that all want a job can get employment · Pay is competitive with industry – 21.80/hr median · Percent increase in pass rate of blueprint reading course 	<p style="text-align: center;">Opportunities</p> <ul style="list-style-type: none"> · Develop a process to donate equipment to the high schools · Training and dual enrollment opportunity with high schools · Fast Track Fridays · Transferrable skills with blueprint reading · Increase enrollment to 12 students in program · Increase from applicant to admit to 60% conversion rate from instructor engagement during the application process 		
**If you have more than 8 strengths and opportunities, right click within the table above and choose insert row above or below.			
What items in this category MUST be addressed on our improvement plan?	<ul style="list-style-type: none"> · Increase enrollment to 12 students in program · Increase from applicant to admit to 60% conversion rate from instructor engagement during the application process 		
What items in this category MIGHT be addressed on the improvement plan?	<ul style="list-style-type: none"> · Offer training and dual enrollment opportunity with high schools—(action plan under MUST) · Fast Track Fridays (action plan under MUST for Math/Tech Ed for STEM focus) 		
<h3>Team Rating</h3> <p>Please indicate by an (X) the team rating of your program on this category.</p>			
<i>All areas need improvement</i>	<i>Some areas meet expectations, but most areas need improvement</i>	<i>All areas meet expectations —few areas need improvement</i>	<i><u>Exemplary</u>—all areas exceed expectations—use as a model for other programs</i>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Additional Comments:(optional)			

SELF-STUDY CATEGORY RESULTS

Program and Category			
Program: Machine Tool Operation - CNC			
Category: Analysis of results of previous program improvement plans (Previous program plans attached below in Document Management)			
Resources Contact(s) for this Category:			
Strengths		Opportunities	
**If you have more than 8 strengths and opportunities, right click within the table above and choose insert row above or below.			
What items in this category MUST be addressed on our improvement plan?	N/A – No program review has been conducted		
What items in this category MIGHT be addressed on the improvement plan?	N/A – No program review has been conducted		
Team Rating			
Please indicate by an (X) the team rating of your program on this category.			
<i>All areas need improvement</i>	<i>Some areas meet expectations, but most areas need improvement</i>	<i>All areas meet expectations —few areas need improvement</i>	<i>Exemplary—all areas exceed expectations—use as a model for other programs</i>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Additional Comments:(optional)			

SELF-STUDY CATEGORY RESULTS

Program and Category	
Program: Machine Tool Operation - CNC	
Category: Progress/results of TSA(includes program outcomes and Employability Essentials)	
Resources Contact(s) for this Category:	
Strengths	Opportunities

· Matrix has been created for program	· Identify within the matrix where the competencies are introduced, practice, and assessed · Identify the program outcomes for the two pathway programs		
**If you have more than 8 strengths and opportunities, right click within the table above and choose insert row above or below.			
What items in this category MUST be addressed on our improvement plan?	· Identify within the matrix where the competencies are introduced, practice, and assessed · Identify the program outcomes for the two pathway programs		
What items in this category MIGHT be addressed on the improvement plan?			
Team Rating			
Please indicate by an (X) the team rating of your program on this category.			
<i>All areas need improvement</i>	<i>Some areas meet expectations, but most areas need improvement</i>	<i>All areas meet expectations—few areas need improvement</i>	<i><u>Exemplary</u>—all areas exceed expectations—use as a model for other programs</i>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Additional Comments:(optional)			
Enter text.			

SELF-STUDY CATEGORY RESULTS

Program and Category	
Program: Machine Tool Operation - CNC	
Category: Curriculum Currency/Modifications	
Resources Contact(s) for this Category:	
Strengths · Disbursement of hours is accurate after five years of curriculum adjustments	Opportunities · Currently 60% of enrolled to graduates. Will increase this to 75%.

<ul style="list-style-type: none"> · Current lab time allows for development of time management of skills 	<ul style="list-style-type: none"> · Add another semester as an advanced semester (complete lab as an independent study course) · Increase retention by 5-10% · Would industry be content with less outcomes? · Would students be content with a 3-4 semester option? Term 1 - CNC Turning – Basic Operation and Programming and CNC Milling – Basic Operation and Programming, Print Reading; Term 2 – CNC Turning and Milling Advanced and how it could be re-arranged · Focus more on student skills – on course principles, notetaking, test taking, time management etc. – Freshman experience class or a 2-day bootcamp to cover at the same time as October inservice days – hand picked by instructor to attend · Block Milling and Turning courses to reflect in schedule-create a visual of current structure
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****If you have more than 8 strengths and opportunities, right click within the table above and choose insert row above or below.**

What items in this category MUST be addressed on our improvement plan?	<ul style="list-style-type: none"> · Currently 60% of enrolled to graduates. Will increase this to 75%. · Increase retention by 5-10%
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What items in this category MIGHT be addressed on the improvement plan?	
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Team Rating

Please indicate by an (X) the team rating of your program on this category.

<i>All areas need improvement</i>	<i>Some areas meet expectations, but most areas need improvement</i>	<i>All areas meet expectations—few areas need improvement</i>	<i><u>Exemplary</u>—all areas exceed expectations—use as a model for other programs</i>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Additional Comments:(optional)

Enter text.

SELF-STUDY CATEGORY RESULTS

Program and Category			
Program: Machine Tool Operation - CNC			
Category: Dual Enrollment			
Resources Contact(s) for this Category:			
Strengths <ul style="list-style-type: none">· We have existing agreements with high school to complete manufacturing production technician technical diploma· Fall 19 schedule to match high school/WITC programming		Opportunities <ul style="list-style-type: none">· Inform area high schools of this option· Increase enrollment with the cap of 6 students	
**If you have more than 8 strengths and opportunities, right click within the table above and choose insert row above or below.			
What items in this category MUST be addressed on our improvement plan?	<ul style="list-style-type: none">· Inform 5 area high schools of dual credit options· Increase enrollment with the cap of 6 students		
What items in this category MIGHT be addressed on the improvement plan?			
Team Rating			
Please indicate by an (X) the team rating of your program on this category.			
<i>All areas need improvement</i>	<i>Some areas meet expectations, but most areas need improvement</i>	<i>All areas meet expectations—few areas need improvement</i>	<i>Exemplary—all areas exceed expectations—use as a model for other programs</i>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Additional Comments:(optional)			
Enter text.			

ACADEMIC PROGRAM IMPROVEMENT PLAN

PROGRAM:	Machine Tool Operation - CNC
Defined Outcome	Increase number of graduates from 60% to 70%
Metric (How will you measure whether or not the outcome has been attained successfully?)* <i>Enter answer below</i>	
Use data from IE and Perkins	
Action Plan/Action Items & Person(s) Responsible: <i>Example: 1) Action Item #1 (Damian VonFrank, Ted May)</i>	Timeline & Resources: <i>Example: 1) Fall 2018 – Need IT time to implement</i>
Dean will block schedule courses for better flow from lecture to lab and competency to competency	Fall 2020
Instructor will invite ASC instructors to conduct workshops on study skills within core classes	Fall 2020-Spring 2021
collaborate with General studies instructors to help ensure students are making progress in these courses	Fall 2020- Fall 2021
**If you have more than 8 action items, right click within the table above and choose insert row above or below.	
Divisional Dean Comments:	
<input checked="" type="checkbox"/> I approve this plan.	
Vice President Comments:	
<input type="checkbox"/> I approve this plan	
Note: (A mid-year and year-end update will be required each year during implementation.)	
Implementation Update (June 30, 2020):	
Instructions: Enter update text in box below, check a box below, and enter metric and results	
<div style="border: 1px solid black; height: 20px;"></div>	
<input type="checkbox"/> Met (include metric result)	
<input type="checkbox"/> Partially Met (include metric)	
<input type="checkbox"/> Not Met (include metric)	
Divisional Dean Comments:	
<div style="border: 1px solid black; padding: 5px;"> <p>“Effective March 25, 2020, Wisconsin Governor Evers directed a safer-at-home directive due to the Covid-19 pandemic. Under this order, all WITC Spring 2020 classes were delayed, cancelled or moved to an alternative delivery method. Due to the many required hours instructors and staff spent moving curriculum to alternate delivery modes, college leadership held requirement of the 6-month academic program review updates due June 1, 2020. Program review updates will next be required of this program in January 2021.”</p> </div>	

VP, Academic Affairs Comments:

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Implementation Update (January 31, 2021):

<input type="checkbox"/> Met (include metric result)	
Partially Met (include metric)	
<input type="checkbox"/> Not Met (include metric)	

Divisional Dean Comments:

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VP, Academic Affairs Comments:

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Implementation Update (June 30, 2021):

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Partially Met (include metric)	
<input type="checkbox"/> Not Met (include metric)	

Divisional Dean Comments:

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VP, Academic Affairs Comments:

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Partially Met (include metric)	
<input type="checkbox"/> Not Met (include metric)	

Divisional Dean Comments:

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VP, Academic Affairs Comments:

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Divisional Dean Comments:

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VP, Academic Affairs Comments:

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Divisional Dean Comments:

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VP, Academic Affairs Comments:

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Divisional Dean Comments:

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VP, Academic Affairs Comments:

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Implementation Update (January 31, 2024):

<input type="checkbox"/> Met (include metric result)	
Partially Met (include metric)	
<input type="checkbox"/> Not Met (include metric)	

Divisional Dean Comments:

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VP, Academic Affairs Comments:

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ACADEMIC PROGRAM IMPROVEMENT PLAN

PROGRAM:	Machine Tool Operation - CNC	
Defined Outcome	Increase retention from Fall to Spring by 10 % to 12 students	
Metric (How will you measure whether or not the outcome has been attained successfully?)* <i>Enter answer below</i>		
Data from IE and Perkins		
Action Plan/Action Items & Person(s) Responsible: <i>Example: 1) Action Item #1 (Damian VonFrank, Ted May)</i>		Timeline & Resources: <i>Example: 1) Fall 2018 – Need IT time to implement</i>
Modify curriculum to mimic Auto- complete competencies in shorter more intense time frames-Dean and Instructor		Fall 2021- Curriculum office, Advisory committee
consider modifying projects in program for more attainable goals- Instructor		Fall 2020-Fall 2021
work with General Studies instructors to stay on top of student progress and create collaborative , contextualized assignments		Fall 2020-Fall 2021
**If you have more than 8 action items, right click within the table above and choose insert row above or below.		
Divisional Dean Comments:		
<input type="checkbox"/> I approve this plan.		
Vice President Comments:		
<input type="checkbox"/> I approve this plan		
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Divisional Dean Comments:	
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VP, Academic Affairs Comments:	
<input type="text"/>	

ACADEMIC PROGRAM IMPROVEMENT PLAN

PROGRAM:	Machine Tool Operation - CNC	
Defined Outcome		
Metric (How will you measure whether or not the outcome has been attained successfully?)* <i>Enter answer below</i>		
<input type="text"/>		
Action Plan/Action Items & Person(s) Responsible: <i>Example: 1) Action Item #1 (Damian VonFrank, Ted May)</i>	Timeline & Resources: <i>Example: 1) Fall 2018 – Need IT time to implement</i>	
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