

Option 1

Program Level Outcomes Assessment Plan

Program Name/College: Computer Integrated Machining Technology/NTID AOS

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Program Goals	Student Learning Outcomes	Academic Program Profile	Data Source/Measure Curriculum Mapping	Benchmark	Timeline	Data Analysis Key Findings	Use of Results Action Items and Dissemination
Please List program-level goals	Students will be able to: (task, capability, knowledge, skills, and dispositions) Use measurable verbs.	Alignment to the five RIT essential outcomes - check all that apply <input checked="" type="checkbox"/> Double click on the check box and find the <b>Default Value</b> and click <b>Checked</b> to check the box. To uncheck, the box, double click and then click <b>Not Checked</b> .	Assessment opportunity (course/experience ) method/measures, assignment/rubric)	Standard, target, or achievement level (usually a %) Statement of student Success	Identify when and how data are collected, aggregated, and analyzed	Identify who is responsible and list key findings	Identify how results are used and shared. List any recommendations or action items
1. Develop technical skills and knowledge needed to transform ideas and drawings into precision machined parts.	Interpret blueprints and specifications to manufacture and inspect products	<input checked="" type="checkbox"/> Critical Thinking <input type="checkbox"/> Ethical Reasoning <input checked="" type="checkbox"/> Integrative Literacies <input type="checkbox"/> Global Interconnectedness <input type="checkbox"/> Creative/Innovative Thinking	NCIM-102 Blueprint Reading 2: Final Exam	80% of students will score 75% or better on final exam.	Annually at end of Spring semester beginning 2013/2014	Data collected by Assessment Coordinator	Shared with program faculty, annual college summary report, NTID Annual Report, and RIT requested reports
	Apply mathematical concepts & engineering graphics skills to solve machining problems		NMTH-206 Trig for Coordinate analysis: Final Exam	80% of students will score 75% or better on final exam.			
	Use Computer Assisted Programming, Computer Assisted Machining (CAD/CAM) software.		NCIM-252 CNC 2: final project evaluation based on scoring guide	80% of students will score 75% or better on scoring guide			
2. Develop skills and knowledge to safely operate conventional and (CNC) machines, tools and other automatic equipment.	Set up and operate conventional lathes, mills, grinders and polishers.	<input checked="" type="checkbox"/> Critical Thinking <input checked="" type="checkbox"/> Ethical Reasoning <input checked="" type="checkbox"/> Integrative Literacies <input checked="" type="checkbox"/> Global Interconnectedness <input type="checkbox"/> Creative/Innovative Thinking	NCIM-234 CIMT 4 and NCIM-241 Prec. Opts. Manuf.: competency based project score.	80% of students will score 75% or better on competency based project	Annually at end of Spring semester beginning AY 2013/2014	Data collected by Assessment Coordinator	Shared with program faculty, annual college summary report, NTID Annual Report & RIT requested reports.
	Create, edit, and verify toolpaths; copy and paste parameters, toolpaths and tool associative geometry for CNC programs.		CNC 1 and CNC 2: competency based project.	80% of students will score 75% or better on project scoring rubric			

2. Continued.	Observe and practice industry safety rules and regulations.		Faculty observations and safety quiz	100% of students will score 90% or better on a shop safety quiz			
3. Develop metrology skills needed to validate the quality of all machined parts and process documents.	Use precision measuring instruments and computers to control and verify quality.	<input checked="" type="checkbox"/> Critical Thinking <input type="checkbox"/> Ethical Reasoning <input checked="" type="checkbox"/> Integrative Literacies <input type="checkbox"/> Global Interconnectedness <input type="checkbox"/> Creative/Innovative Thinking	NCIM-121 Precision Measurements: Final grade average.	80% of students will score 75% or better on final grade	Annually at end of Spring semester beginning AY 2013/2014	Data collected by Assessment Coordinator	Shared with program faculty, annual college summary report, NTID Annual Report, and RIT requested reports
	Write complete inspection reports.		CIMT 4 and Precision Optics Manufacturing 1	80% of students will accurately & completely fill out an inspection report for all machined parts.			
4. Develop basic understanding of materials used in manufacturing including ferrous and non-ferrous metals, glass and polymers.	Identify characteristics of various industrial materials	<input type="checkbox"/> Critical Thinking <input type="checkbox"/> Ethical Reasoning <input checked="" type="checkbox"/> Integrative Literacies <input type="checkbox"/> Global Interconnectedness <input type="checkbox"/> Creative/Innovative Thinking	NCIM-241 Precision Optics Manufacturing 1 and NCIM-234 CIMT 4	80% of students will score 75% or better on the final exam.	Annually at end of Spring semester beginning AY 2013/2014	Data collected by Assessment Coordinator	Shared with program faculty, annual college report, NTID Report, and RIT requested reports
5. Students will develop practical job related and employment seeking skills for careers in manufacturing, metalworking or precision optics, and express satisfaction with their program of learning.	Produce machined parts and optical elements to exact specifications.	<input checked="" type="checkbox"/> Critical Thinking <input checked="" type="checkbox"/> Ethical Reasoning <input checked="" type="checkbox"/> Integrative Literacies <input checked="" type="checkbox"/> Global Interconnectedness <input type="checkbox"/> Creative/Innovative Thinking	Students complete a competency based final exam in CIMT 4 and Precision Optics Manufacturing I.	85% of the students will produce 80% of specified features within tolerance.	Annually at end of Spring semester beginning AY 2014/2015	Data collected by Assessment Coordinator	Shared with program faculty, annual college summary report, NTID Annual Report, and RIT requested reports
	Observe and practice industry safety rules and regulations.		Faculty observation checklist  Co-op Supervisor Evaluation Form	100% of the students will follow safety standards			

5. Continued	Demonstrate problem-solving, decision-making, responsibility, pride in self and work performance, and other learned behaviors and attitudes necessary for entering the work force	NCE Alumni data	80% of students will score 3 or more on a 1-5 evaluation scale	Data collected every third year.		
	Demonstrate technical competency on the job for an approved co-op employer, which will allow them access to participation within our global society.	Co-op self assessment Evaluation Form	Co-op Supervisor	90% of graduates will be employed in the field of precision manufacturing and/ or precision optics	Annually at the beginning of Fall semester AY 2015/2016	
	Affirm satisfaction in their career/academic preparation.	Student Satisfaction Survey	80% of students will respond they are "very satisfied" or "satisfied" with overall program and courses satisfaction.			

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