

NTID
Computer Integrated Machining Technology Program Outcomes Assessment
Plan and Report for AY 2006-2007 Middle States

Program Goal: Students develop job entry skills for the precision machining area. Graduates have a working knowledge of manufacturing processes, equipment, and software. Technical jobs may include lathe operators, milling machine operators, computer numerical control (CNC) operators, and machinists.

Critical Outcomes for all Students		Assessment of Outcomes		Timeline		Results	
Domain/Task/ Capability	Performance Criteria/ Benchmarks	Instrument/ Opportunity	Assessment of Performance	Develop	Collect	Summarization of Results	Use of Results
1. Technical	Produce machined parts to specifications: a. set up and operate two axis, lathes, mills, and grinders to a tolerance of + - .003 b. apply math and engineering graphics skills to solve machining problems c. use precision measuring instruments and computers to control quality	Students complete a timed, competency based final exam for CIMT 4	Given a print, material and lab access, 85% of the students will produce 80% of the specified features in tolerance.	Spring 20063	Begining Spring 20073	Preliminary assessment checklist is in the works.	NA
2. Technical	Create CNC programs using solid modeling techniques; create, edit, and verify toolpaths; copy and paste parameters, toolpaths and tool	Students complete a timed, competency based final exam in CNC Toolpaths.	Given a print, material and lab access, 85% of the students will produce 80% of the specified features in tolerance	Spring 20063	Begining 20073	Preliminary assessment checklist is in the works.	NA

	associative geometry						
3. Job Skills	Students will demonstrate problem-solving, decision-making, responsibility, pride in self and work performance, and other learned behaviors and attitudes necessary for entering the work force and being self-sufficient.	Co-op Supervisor Evaluation Form	Score of 3 or higher on RIT Supervisor On-line Co-op Evaluation system, sections "Interaction in the Work Environment," "Quality of Work," and Communication and Literacy Skills."	20064	Beginning Summer 20074		
4. Co-op Work Experience	Students will demonstrate technical competency on the job in precision manufacturing industries which will allow them access to participation within our global society.	Co-op Supervisor Evaluation Form	Score of 3 or higher on RIT On-line Co-op Evaluation system, sections "Problem Solving" and "Technical Skills."	20064	Beginning Summer 20074		
5. Job Placement	Students will demonstrate technical competency on the job in precision manufacturing industries which will allow them access to participation within our global society.	NCE	90% of graduates will be employed in the field of precision manufacturing.	20072	Beginning 20081		
6. Student Satisfaction	Graduating students will indicate	Survey	85% of students will rate all aspects of the	20071	Beginning Fall 20071		

	satisfaction with program and courses.		program and courses as satisfactory or above.				
Comments:							
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