

**NTID**  
**Automation Technologies Program Outcomes Assessment**  
**Plan and Report for AY 2008-2009**

*Program Goal: To provide students the job-entry skills needed to acquire positions in a wide array of automated environment, who will have as their primary responsibilities, to install, maintain, upgrade, troubleshoot and repair automated systems and their components.*

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	<p>A. Reading and interpreting drawings, schematics and technical specifications: Students will demonstrate the ability to read and correctly interpret electrical and mechanical drawings, schematics and technical specification sheets.</p> <p>B. Programming: Students will demonstrate an understanding of programming concepts relating to the control of a system or process.</p>	Written and hands on project exam in Automated Systems I	<p>A. Given an assembly or troubleshooting project, 80% of all students will be able to correctly read and interpret electrical and pneumatic drawings, schematics and other technical specification sheets needed to correctly assemble or troubleshoot equipment.</p> <p>B. Given written program segments, 80% of all students will be able to determine the function or purpose of the program segment.</p>	20051	20082	For the quarter 20082 (n=2), 100% of students scored "acceptable" or better for 4 of 4 technical skill categories: Assembly drawings, Pneumatic Schematics, Electrical Schematics, and PLC Programming.	Results were positive; however, we have a small pool and will continue to monitor the outcomes.
2. Technical	Assemble, configuring and maintaining an automated system: Students will be able to	Written and hands-on project exam in Automated Systems Troubleshooting II	Given a basic automated system, 80% of all students will safely be able to correctly assemble additional	20051	20081	For the quarter 20081 (n=3), 100% of students scored "acceptable" or better for 3 of 4 technical skill categories: electrical, pneumatic,	Results were positive; however, we have a small pool and will continue to

	safely assemble, upgrade, configure, repair and maintain a basic automated system.		workable subsystems and demonstrate proficiency in controller program installations, configurations, interfacing, diagnostics, repair and maintenance.			mechanical and programming. The one category that came short (67%) was electrical.	monitor the outcomes.
3. Job Skill	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."	20054	Summer 20084	For students in the Engineering Studies Department the mean ratings by co-op supervisors who completed the evaluation online during the four quarters 20074-20083 was as follows:  4.36 (N=15) for Interaction 1  4.33 (N=15) for Interaction 2  4.07 (N=15) for Interaction 3  4.33 (N=15) for Interaction 4  3.87 (N=15) for Interaction 5  4.33 (N=15) for Quality of Work 1  4.47 (N=15) for Quality of Work 2  4.33 (N=15) for Communication 1  4.60 (N=15) for Communication 2	Met expectations and no action needed.

						3.97 (N=15) for Communication 3	
4. Co-op Work Experience	Students will demonstrate technical competency on the job in Automation Technology.	Co-op Supervisor Evaluation Form	Score of 3 or higher on RIT Supervisor On-line Co-op Evaluation system, overall student job performance question.	20054	Summer 20084	For students in the Engineering Studies Department the mean rating by co-op supervisors who completed the evaluation online was 4.33 (N=15) for Overall Satisfaction during the four quarters 20074-20083.	Results were positive; however, we have a small pool and will continue to monitor the outcomes.
5. Job Placement	Student will gain entry-level employment in Applied Robotics field.	NCE	90% of graduates will be employed in the area of automated manufacturing.	20062	Winter 20082	For AY 2006-2007 no students from the AT program were seeking employment.	Results were positive; however, we have a small pool and will continue to monitor the outcomes.
6. Student Satisfaction	Graduating students will indicate satisfaction with program and courses.	Survey	85% of students will rate all aspects of the program and courses as satisfactory or above.	Winter 20052	Fall 20081	For quarter 20081 (n=3), 100% of students "agreed" or "strongly agreed" that "Overall, I am satisfied with the courses in this program."  Also, 67% of students "agreed" or "strongly agreed" that "Overall, I believe that this program will help me with my career."	Results shows 2/3 of the students were satisfied with the program (below 85%). We need to conduct another survey to find out what they were not satisfied with.
7. Alumni Satisfaction	Alumni will indicate satisfaction with the instruction they received at NTID/RIT	Alumni Survey	80% of Alumni will rate their NTID/RIT experience as Good or Excellent (5-point scale) for the instruction they received.	AY 2007-2008	AY 2007-2008	N/A	N/A

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**Comments:**

**(Summary/Reflections on progress made since AY 2006-2007 Middle States Report)**

The AT program was part of a significant department-wide curriculum revision that was implemented AY 2006. As part of this effort, the AT program developed an Outcomes Assessment data collection plan, and the program has completed its second year of Outcomes Assessment data collection.

The Outcomes Assessment needs more time in order to collect a sufficient amount of data. Based on the data collected so far, the program has learned that there is a potential weakness in the area of electrical analysis and troubleshooting problems with electrical circuits.

The program will continue to collect data and determine an action plan when they have collected a sufficient amount of data.

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Rev: 07/22/2009

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