

**NTID**  
**Automation Technologies Program Outcomes Assessment**  
**Plan and Report for AY 2010-2011**

*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	20092	For the quarter 20102 (n=6), 100% of students scored "acceptable" or better for 1of 4 technical skill categories: Assembly drawings. 83% of students scored acceptable or better in Electrical Schematics and 67% of students scored acceptable or better in Pneumatic Schematics and PLC Programming.	Met expectations and currently reviewing skill sets to determine what needs modifications (or improvements), specifically to PLC programming. *see comment below.
2. Technical	Assemble, configuring and maintaining an automated system: Students will be able to safely	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 workable	20051	20091	For the quarter 20101 (n=6), 100% of students scored acceptable or better for all 4 technical skill categories: electrical, pneumatic, mechanical and	Met expectations and currently reviewing skill sets to determine what needs modifications (or

	assemble, upgrade, configure, repair and maintain a basic automated system.		subsystems and demonstrate proficiency in controller program installations, configurations, interfacing, diagnostics, repair and maintenance.			programming.	improvements), specifically to PLC programming. *see comment below.
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 20094	<p>For students in the Engineering Studies Department the mean ratings by co-op supervisors who completed the evaluation online during the four quarters was as follows:</p> <p>4.00 (N=16) for Interaction 1</p> <p>3.94 (N=16) for Interaction 2</p> <p>3.81 (N=16) for Interaction 3</p> <p>3.94 (N=16) for Interaction 4</p> <p>3.87 (N=16) for Interaction 5</p> <p>4.25 (N=16) for Quality of Work 1</p> <p>4.12 (N=16) for Quality of Work 2</p> <p>3.67 (N=16) for Communication 1</p> <p>3.64 (N=16) for Communication 2</p> <p>3.93 (N=16)</p>	Met expectations and no action required.

						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 ratings by co-op supervisors who completed the evaluation online during the four quarters 20094-20103 was as follows: 3.88 (N=16) for Overall Satisfaction	Met expectations and no action required.
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 2008-2009 graduates there were no Automation Technology employed. 1 is reported as unemployed; 2 are continuing in school and 1 is unknown.	More students are attempting to continue their education.
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	Cummulative results for the previous two years:  N = 5  100% of students “agreed” or “strongly agreed” that “Overall, I am satisfied with the courses in this program.”  80% of students “agreed” or “strongly agreed” that “Overall, I believe that this program will help me with my career.”	Met expectations and will explore ways to improve the student satisfactory.
7. Alumni Satisfaction	Alumni will indicate	Alumni Survey	80% of Alumni will rate their	AY 2007-	AY 2007-	For Engineering Studies	Met expectations

	satisfaction with the instruction they received at NTID/RIT		NTID/RIT experience as Good or Excellent (5-point scale) for the instruction they received.	2008	2008	Department AOS & AAS alumni who graduated from 2005-2009 and responded to the 2010 alumni survey, N=11; 90.9% indicated satisfaction.	and will continue to seek ways to improve the overall satisfactory rating.
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**Comments:**

\* Automation Technology program is scheduled for program elimination in the near future. We did not accept any first year students this year.

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