

NTID
Automation Technologies Program Outcomes Assessment
Plan and Report for AY 2011-2012

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	<p>N/A</p> <p>Program has been discontinued.</p>	<p>N/A</p> <p>Program has been discontinued and there are no new admitting students.</p>
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 20111 (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>4.73(N=16) for Interaction 1</p> <p>4.75 (N=16) for Interaction 2</p> <p>4.75 (N=16) for Interaction 3</p> <p>4.88 (N=16) for Interaction 4</p> <p>4.69 (N=16) for Interaction 5</p> <p>4.75 (N=16) for Quality of Work 1</p>	Met expectations and no action required.

						4.94 (N=16) for Quality of Work 2	
						4.88 (N=16) for Communication 1	
						4.64 (N=16) for Communication 2	
						4.87 (N=16) 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 20104-20113 was as follows: 4.88 (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	No graduates were reported as seeking work for the reporting period. One was continuing in school.	N/A
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	N/A Program has been discontinued.	N/A Program has been discontinued.
7. Alumni Satisfaction	Alumni will indicate satisfaction with the instruction they received	Alumni Survey	80% of Alumni will rate their NTID/RIT experience as Good or Excellent (5-	AY 2007-2008	AY 2007-2008	No alumni survey was administered this year.	N/A

	at NTID/RIT		point scale) for the instruction they received.				
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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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