

NTID
Automation Technologies Program Outcomes Assessment
Plan and Report for AY 2009-2010

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 20082 (n=6), 100% of students scored "acceptable" or better for 3of 4 technical skill categories: Assembly drawings, Pneumatic Schematics, Electrical Schematics. The one category that came short was PLC Programming where only 50% of the students scored acceptable or better.	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	Written and hands-on project exam in Automated Systems Trouble-shooting II	Given a basic automated system, 80% of all students will safely be able to correctly assemble additional	20051	20091	For the quarter 20091 (n=3), 100% of students scored acceptable or better for 3 of 4 technical skill categories:	Met expectations and currently reviewing skill sets to determine what needs modifications

	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.			electrical, pneumatic and mechanical. The one category that came short was programming. Comment: "[Students] need more robot controller experience."	(or improvements), specifically to 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		
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		
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 2007-2008 no Automation Technology graduates were seeking employment.	
6. Student Satisfaction	Graduating students will indicate satisfaction	Survey	85% of students will rate all aspects of the program and	Winter 20052	Fall 20081		

	with program and courses.		courses as satisfactory or above.				
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

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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