



Automotive Technology
Canino School of Engineering Technology
2018 Assessment Report

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Mission

The Canino School of Engineering Technology (CSOET) at SUNY Canton is committed to providing an educational experience that prepares students for a career in a technologically oriented society. The curricula are focused on providing career skills reviewed by industry partners and accreditation agencies. Our programs provide opportunities for every student to find a suitable starting point for their academic endeavor. Graduates have the ability to work in teams, think critically, utilize the tools of their trade or industry, and communicate effectively.



What was assessed? Student learning outcomes list: (1-2 this cycle)(3-4 next cycle)

- *PSLO #1: Diagnose and repair all automotive systems. Aligns with ISLO#2 Critical Thinking-Problem Solving*
- *PSLO #2: Demonstrate the ability to find all related system diagnostic/repair information within auto service publications. Aligns with ISLO#5 Industry, Professional, Discipline-Specific Knowledge and Skills.*



Where were outcomes assessed?

- *PSLO # 1: AUTO 101, 102, 111, 112, 141, 144, 213, 214, 220, 221, 241, & 282*
- *PSLO #2: (AUTO 101, 102, 111, 112, 122, 141, 144, 220, 225, 230, 241, & 282)*



How was the assessment accomplished?

- Student work assessed:
 - Quizzes
 - Midterm and final exams
 - Lab Practicals
 - Lab Performance
 - Direct Student Artifact (Training Certificates)
- Measurement strategy:
 - Applicable rubrics used for reports
 - 70 % of questions answered correctly on quizzes, lab practicals, and midterm/final exams.
 - Observed degree of mastery for lab performance.
- Sample size:
 - See next 2 slides for each course sample size



Sample Sizes for PSLO 1

- AUTO 101: 11
- AUTO 102: 21
- AUTO 111: 11
- AUTO 112: 16
- AUTO 141:19
- AUTO 144: 19
- AUTO 213: 6
- AUTO 214: 13
- AUTO 220:7
- AUTO 221: 6
- AUTO 241: 10
- AUTO 282: 10



Sample Sizes for PSLO #2

- AUTO 101: 11
- AUTO 102: 21
- AUTO 111: 11
- AUTO 112: 16
- AUTO 122: 14
- AUTO 141: 19
- AUTO 144: 19
- AUTO 220: 7
- AUTO 225: 5
- AUTO 230: 19
- AUTO 241: 10
- AUTO 282: 10



Assessment results: What have the data told us?

- *1. Virtual experiences are no substitute for actual experience in hands-on trades. Actual tools are needed for mastery of topic.*
 - *le: AUTO 241/282 UNMET OBJECTIVES 2018*
 - *le: AUTO 213 unmet in 2017 with outdated equipment, but **exceeded in 2018** with addition of newer vehicles.*
- *2. Unmet objectives reveal the wisdom of 3rd party accreditation requirements such as NATEF/ASE Student.*
- *3. Student absence very negatively impacts overall student performance whereas the class did not meet objectives.*



Data-driven decisions: How the program has or plans to “close the loop” based on these results.

- Continue to revise the related courses to better align with the student learning outcomes
- Continue to update the curriculum *and equipment* to be current with the technology the students will use upon graduation, and so that they meet or exceed the objectives.
- Advise students in the program to seek for additional instructional support when needed, such as tutoring, advising, tracking through RooSuccess.



What resources were used or have been requested to close the loop?

- Program needs \$30,000 for an alignment rack.
 - The old one simply cannot be fixed any longer.



Attachments: 2018 SLO Findings



ALO #1 - Assessment Findings Data

ALO1: Diagnose and Repair All Automotive Systems/ISLO#2 Critical Thinking-Problem Solving

	Measures		Not Met		Met		Exceeded		No Findings	
	N		N	%	N	%	N	%	N	%
All Courses										
AUTO 101: A101.4	11		5	14%			9	86%		
AUTO 111: A111.2, A111.4	11									100%
AUTO 112: A112.4	16		6	35%			10	65%		
AUTO 141: A141.1-5	19						19	100%		
AUTO 144: A144.1-7	19						2	100%		



ALO #1 - Assessment Findings Data

ALO1: Diagnose and Repair All Automotive Systems/ISLO#2 Critical Thinking-Problem Solving

	Measures	Not Met		Met		Exceeded		No Findings	
	N	N	%	N	%	N	%	N	%
AUTO 213: A213.1-5	6					6	100		
AUTO 214: A214.1-6	13							13	100%
AUTO 214: A214.7	13	9	70%			4	30%		
AUTO 214: A214.8-9	13					13	100%		
AUTO 220: A220.1	7	1	17%			6	83%		
AUTO 220: A220.2	7	4	57%			3	43%		
AUTO 220: A220.3	7	1	14%			6	86%		
AUTO 220: A220.4	7	2	33%			5	67%		



ALO #1 - Assessment Findings Data

ALO1: Diagnose and Repair All Automotive Systems/ISLO#2 Critical Thinking-Problem Solving

	Measures	Not Met	Met	Exceeded	No Findings
AUTO 220: A220.5	7	2	33%	5	67%
AUTO 221: A221.3	6			6	100%
AUTO 241: A241.1	10	10	100%		
AUTO 241: A241.2	10	3	30%	7	70%
AUTO 241:A241.3	10	2	20%	8	80%
AUTO 241: A241.4	10	4	40%	6	60%
AUTO 241: A241.5	10	3	30%	7	70%
AUTO 241: A241.6					10 100%



ALO #1 - Assessment Findings Data

ALO1: Diagnose and Repair All Automotive Systems/ISLO#2 Critical Thinking-Problem Solving

	Measures	Not Met	Met	Exceeded	No Findings
AUTO 282: A282.2	10	4	40%	6	60%
AUTO 282: A282.3	10	4	40%	6	60%
AUTO 282: A282.4	10	2	20%	8	80%
AUTO 282: A282.5	10	3	30%	7	70%



ALO #2 - Assessment Findings Data

ALO# 2 Demonstrate the ability to find all related system diagnostic/repair information within auto service publications

	Measures	Not Met	Met	Exceeded	No Findings
AUTO 101: 101.2	11	3 27%		8 73%	
AUTO 101: 101.3	11	3 27%		8 73%	
AUTO 101: A101.4	11	2 19%		9 81%	
AUTO 102: A102.1	21			21 100%	
AUTO 102: A102.2-5	21	6 30%		15 70%	
AUTO 111					11 100%
AUTO 112: A112.3-4	16	6 35%		10 65%	



ALO #2 - Assessment Findings Data

ALO# 2 Demonstrate the ability to find all related system diagnostic/repair information within auto service publications

	Measures	Not Met	Met	Exceeded	No Findings
AUTO 122: A122.2-3	14	1	8%	13	92%
AUTO 141: A141.1-5	19	6	30%	13	70%
AUTO 144: A144.1-7	19	6	30%	13	70%
AUTO 220: A220.1	7	1	20%	6	80%
AUTO 220: A220.4	7	2	33%	4	67%
AUTO 220: A220.5	7	2	33%	4	67%
AUTO 225: A225.3-5	5			5	100%



ALO #2 - Assessment Findings Data

ALO# 2 Demonstrate the ability to find all related system diagnostic/repair information within auto service publications

	Measures	Not Met	Met	Exceeded	No Findings
AUTO 230: 1&4	19				19 100%
AUTO 241: A241.1	10	10 100%			
AUTO 241: A241.2	10	3 30%		7 70%	
AUTO 241: A241.3	10	2 20%		8 80%	
AUTO 241: A241.4	10	4 40%		6 60%	
AUTO 241: A241.5	10	3 30%		7 70%	
AUTO 241: A241.6	10				10 100%



ALO #2 - Assessment Findings Data

ALO# 2 Demonstrate the ability to find all related system diagnostic/repair information within auto service publications

	Measures	Not Met	Met	Exceeded	No Findings
AUTO 282: A282.2	10	4	40%	6	60%
AUTO 282: A282.3	10	4	40%	6	60%
AUTO 282: A282.4	10	2	20%	8	80%
AUTO 282: A282.5	10	3	30%	7	70%



- Thank you.

