

# STARK STATE COLLEGE ASSESSMENT SUMMARY REPORT

Department/Division	Chair/Dean
Engineering Technologies Division	Donald Ball
Degree Program(s)/Major(s)/Certificate(s)	Academic Year (20xx/20xx)
Engineering Technology Department:	2015-2016
Electrical ET – Electro Mechanical Major, Electronic ET, Mechanical ET, Mechanical ET – Electro Mechanical Major, Electronic ET, Mechanical ET,	
Engineering, Pre-Engineering Electrical Engineering, Pre-Engineering Civil Engineering, One Year Certificates: Eucl Cell One Year Certificate	
Industrial Technology Department:	
Applied Industrial Technology, Environmental Health & Safety, Heating, Ventilation, Air Conditioning and Refrigeration Technology, Industrial Process Operation	
Technology, Automation and Robotics Technology, <u>Petroleum Technology</u> – Pipeline Technician, Instrumentation and Electronics Technician, Industrial	
Mechanics Technology, and Production Technician. <u>One Year Certificates:</u> Oil & Gas Heavy Industrial Mechanic, Industrial Process Operation, Electrical	
Maintenance, Automation & Robotics, Preventive & Predictive Maintenance, CNC, Sustainable/Alternative Energy, Welding, HVAC, Environmental Health & Safety	
Automotive and Trenewartation Departments	
Automotive and Transportation Department:	
Automotive Technology 2250, GM ASEP 2251 <u>One Year Certificates:</u> 1-Year	
Preparation 2258, Automotive Aftermarket Vehicle Modifications 2259, Automotive	
Detailing 2260, Automotive Maintenance and Light Repair 2261, Automotive Transmission and Driveline 2262, CAT Lift Truck 2263, Honda PACT 2264, Toyota T- TEN 2266, 2267, & 2268	

The annual assessment summary report assists the College in documenting assessment progress and provides department chairs with assessment data needed to complete their academic program review. Department chairs will summarize information for the courses assessed in their department during the academic year. Chairs will forward their department summary report to their dean by June 10. Deans will summarize information for the courses assessed in their division and forward their division report to the Provost by July 1. The Provost will prepare an Academic Affairs' assessment report by July 29.

1. Briefly summarize the data that was collected related to each of the General Learning Outcomes and the plans for improvement if below 70%.

During the 2015-2016 AY the ET Division continued to review course content and assessments for the fall 2013 – spring 2016 assessment cycle. Any achievement level for any evaluation method that fell below the 70% minimum college standard was reassessed during the fall 2015/spring 2016 AY. Courses that have evaluation methods with achievement levels below the minimum standard will continue to be reassessed each semester and plans for improvement implemented until those achievement levels are above the 70%.

All of the courses that were assessed this academic year except for two met the 70% or above GLO outcomes. The two courses that fell below the 70% margin were MST137 and ENV121. We are evaluating all lab exercises in MST137 to make certain students have appropriate time to progress their welding skills. ENV121 – we had an instructor transition at nearly the middle of the semester due to medical situation. We feel this had a major negative effect on this specific class. We are also reviewing the course curriculum for this course.

1a. Courses assessed/total number of eligible courses in your department or division during this past academic year = 86/219 = 39.3% Eligible courses reflect all approved courses in your department/division, including courses with an effective date, during this academic year. Re-assessed courses should not be included in this section. Report re-assessed courses in 1b below. (Please provide numbers, including zero (0), in the blanks below. If not applicable, indicate with an NA.)

	Faculty:	19 FT	33 Adjunct		
	Modality:	76 F2F	1 W2	0 W3	0 W4
	Campus:	43 Main	34 Satellite	0 College Credit Plus	0 Early College
	Time:	52 Day	25 Evening	0 Weekend	
1b.	Courses re-ass (Please provide	sessed/total numbe numbers, including a	er of eligible courses in zero (0), in the blanks belo	your department or division = ow. If not applicable, indicate with	0/0 = 0% (ex. 8/45=18%) n an NA.)
	Faculty:	0 FT	0 Adjunct		
	Modality:	0 F2F	0 W2	0 W3	0 W4
	Campus:	0 Main	0 Satellite	0 College Credit Plus	0 Early College

Template revision date: 5-10-2011, 9-26-2011, 3-17-2016, 4-6-2016

Time: 0 Day	0 Evening 0	Weekend		
1c. Programs, options, certificates affected by assessment/eligible programs, majors, certificates= 44/46 = 95.7%				
1d. Departments participating in assessment/eligible departments= 3/3 = 100% ( <b>To be completed by Deans ONLY)</b> (ex. 4/4=100%)				
2. List the evaluation methods used to evaluate the GLOs and PLOs. Refer to examples on the course assessment templates and in the				
assessment handbook available on <i>mystarkstate</i> .				
General Learning Outcomes (GLOs) Program Learning Outcomes (PLOs)				
Exam	Quiz			
Test	Homework			
Laboratory Assignment	Attendance			
		NA for academic year, 2010-2011		
		NA for academic year, 2011-2012		
Quizzes and Exams	Effective Communication – GLO1;	Demonstrate knowledge of theory and practice acquired through		
	Quantitative Literacy – GLO2;	lectures, demonstrations, and laboratory practice		
	Information Literacy – GLO3;			
	Critical Thinking – GLO4; Civic			
	Professional, and Ethical			
	Responsibility – GLO6			
Attendance and Participation	Civic, Professional, and Ethical	Demonstrate and practice good work/employment habits		
	Responsibility - GLO6			
Homework Assignments	Effective Communication - GLO1;	Demonstrate learned knowledge and practice		
	Quantitative Literacy - GLO2;			
	Information Literacy - GLO3;			
	Critical Thinking - GLO4			
Performance Based Assessments	Effective Communication - GLO1;	Working Effectively in Teams		
(Lab Assignments)	Quantitative Literacy - GLO2;	Demonstrate safety and skill set being developed		
	Critical Thinking - GLO4; Civic,			
	Professional and Ethical			
	Responsibility - GLO6			
Written Products (including	Effective Communication - GLO1;	Demonstrate proficiency in drawing interpretation, utilization, and		
submittal of drawings)	Information Literacy - GLO3;	implementation		
	Critical Thinking - GLO4; Civic,			
	Professional, and Ethical			
	Responsibility - GLO6			

Oral Presentation	Effective Communication - GLO1;	Hands on activities via oral presentations and/or successful
	Information Literacy - GLO3;	demonstrations of learned skill sets
	Critical Thinking - GLO4	
Cap Stone Experience	Effective Communication - GLO1;	Troubleshooting applications
	Quantitative Literacy - GLO2;	Completion of industry recognized certifications
	Critical Thinking - GLO4; Civic,	
	Professional, and Ethical	
	Responsibility - GLO6	
Written Products (including	Effective Communication (GLO1);	Capstone Projects
submitted drawings)	Quantitative Literacy (GLO2);	
	Information Literacy (GLO3);	
	Critical Thinking (GLO4);	
Cap Stone Experience	Effective Communication (GLO1);	Capstone Projects
	Quantitative Literacy (GLO2);	
	Information Literacy (GLO3);	
	Critical Thinking (GLO4);	
	Global & Diversity Awareness	
	(GLO5); Civic Professional and	
	Ethic Responsibility (GLO6)	
Oral Presentation	Effective Communication (GLO1);	Capstone Projects
	Quantitative Literacy (GLO2);	
	Information Literacy (GLO3);	
	Critical Thinking (GLO4);	
	Global & Diversity Awareness	
	(GLO5); Civic Professional and	
	Ethic Responsibility (GLO6)	
Juried Review and Performance	Effective Communication (GLO1);	Capstone Projects
	Quantitative Literacy (GLO2);	
	Information Literacy (GLO3);	
	Critical Thinking (GLO4);	
	Global & Diversity Awareness	
	(GLO5); Civic Professional and	
	Ethic Responsibility (GLO6)	

3. Include evidence of students achieving or not achieving the learning outcomes. List each course assessed and re-assessed with the GLOs for each course including the complete data and percentages.

As evidenced on the course assessment/re-assessment forms for the assessed 2015-2016 courses, faculty reported all achievement levels for all evaluation methods in courses. The percentage of General Learning Outcomes are listed below broken out by department and course. The minimum college standard of 70% or higher was utilized for the achievement level.

### ENGINEERING TECHNOLOGIES DIVISION OVERALL ASSESSMENT:

Courses Reassessed – N/A						
Course Assessed (none needed re- assessed)	GLO1: Effective Communication	GLO2: Quantitative Literacy	GLO3: Information Literacy	GLO4: Critical Thinking	GLO5: Global & Diversity Awareness	GLO6: Civic, Professional, & Ethical Responsibility
TOTAL	97%	97%	96%	96%	95%	99%

#### 4. Outline and summarize the action plans that have been developed to improve student learning based on the evidence for this year.

A variety of planned improvements have been identified by several departments as indicated below. For the courses that will need to be reassessed a variety of planned improvements were identified.

Below is a sample of each unique department's student learning improvement plan:

- Reevaluate and/or re-write test for validity of questions
- Reinforce key concepts from prior courses to improve student learning outcomes
- Increase group work (i.e. discussion, team projects)
- Fall semester 2016 course improvement will take place in the following courses: MST136, MST137, MST138, and MST139.
- Environmental, Health and Safety program review to increase quality and transferability for students.
- All courses will be assessed on a regular basis for continuous improvement purposes.

Each department continually reviews and monitors each course and program to ensure student learning outcomes are achieved. In addition to improvement plans for the various methods of evaluation, improvement strategies for course sequencing/alignment, tutoring, advising, communication, training of faculty, and early intervention are discussed, reviewed, updated and/or implemented.

# 5. What steps did you take to ensure shared responsibility from faculty/staff/students/advisory boards/etc. for student learning and assessment of student learning?

At the beginning of Fall 2015 semester, Department Chairs were instructed to assure that their faculty evaluate their course/courses assessment and to review their plans for improvement that they identified on the course assessment forms from previous semesters/cycle. They were also instructed to re-assess any method of evaluation that fell below the minimum standard and report the achievement level at the end of Fall 2015 semester. They were instructed to mentor and instruct any adjuncts that were teaching a course that needed to be assessed or reassessed during the 2015-2016 AY. Assessment of additional courses and re-assessment of necessary courses will occur during the next academic year.

All Master and Class syllabi are housed on the "H" drive for easy access to full and part time faculty. One-on-one sit down mentoring is available for full-time and part-time faculty to assure full understanding and compliance with the required assessment form completion. This aides in accurate reporting. Advisory committees meet annually to discuss course offerings and any proposed changes. Student attendance is documented to help ensure student success through mentor/faculty interaction with students.

## Department specific:

- Welding faculty have met on several occasions to align lab activities to assure proper sequencing of student skill development and success.
- Automotive faculty have been working with new web learning tools to better evaluate student comprehension. Students have been assessing new web based learning tools. The automotive advisory committee meets twice a year and has been involved with the decision on which new web learning tools to use.

6. Identify the steps you plan to take to improve the effectiveness of the efforts to assess and improve student learning for next year.		
Steps for Improvement	Resource(s) Needed	
With only two exceptions all other courses assessed this year met the		
70% or higher benchmark for student success on the GLO's.	N/A	
As stated above in question #4 we will be discussing lab activities in	Montings with full and part time welding faculty to revise person	
the welding course sequence in order to streamline required skills for	changes as warranted to assist with higher student success	
students to progress appropriately and perhaps then impact our	nathwayc	
student success rate on the actual AWS welding certification tests.	patriways.	
Continue to offer "Open Lab" tutoring for students enrolled in	Continued formal approval from the business office to offer these	
welding classes at Barberton this coming year. This extra practice	continued formal approval from the business office to offer these services for the 2016-17 academic year	
time has proven effective in increasing student's skill levels.	services for the 2010-17 academic year.	
Encourage faculty attendance at Best Practices workshops and	Funding for off computer professional development apportunities	
professional development opportunities.		

Lab book review and update	Focus Group/Curriculum Meeting
PowerPoint review and update	Focus Group/Curriculum Meeting
Update of homework in Angel	Focus Group/Curriculum Meeting
Tool and equipment needs assessment	Focus Group/Curriculum Meeting
Review the outcomes of faculty's student success goals (addressed on Performance Evaluations).	Meet with faculty throughout the year to review the progress they are making on their goals and assess if additional resources are needed.
Encourage faculty attendance at Best Practices workshops and professional development opportunities.	Funding for off-campus professional development opportunities.
Track enrollment and retention data to measure the effectiveness of action plans from current and past assessment periods.	Access to reports in ARGOS.
Make tutoring available for students taking ET courses	Qualified Tutors