Assessment: Course Four Column

Spring/Summer 2018

El Camino: Course SLOs (IND) - Electronics and Computer Hardware Technology

ECC: ECHT 124:Operational Amplifiers and Linear Integrated Circuits

Course SLOs	*Assessment Method Description*	*Results*	*Actions*
SLO #1 Operational Amplifier - Given a schematic diagram of a basic Operational Amplifier (Op) with negative feedback, the students will be able to assemble, test and measure the circuit for its operational parameters **Course SLO Status:** Active **Course SLO Assessment Cycle:** 2015-16 (Spring 2016), 2017-18 (Spring 2018), 2019-20 (Spring 2020) **Input Date:** 11/12/2013	**Laboratory Project/Report -** Given a schematic of an Op-Amp circuit students will build the circuit and make measurements. **Standard and Target for Success:** 75% of the students must be able to build the circuit and test it without help	**Semester and Year Assessment Conducted:** 2017-18 (Spring 2018) **Standard Met? :** Standard Not Met Of the 12 students in the class asked to build the circuit, 8 students did not need help, 67%, and 4, 33%, needed help. (04/18/2018) **Faculty Assessment Leader:** Robert Diaz	**Action:** Cover Prototyping circuits in greater detail. (05/20/2019) **Action Category:** Teaching Strategies **Follow-Up:** Verify that the teams can still do this. (06/26/2022)
		Semester and Year Assessment Conducted: 2015-16 (Spring 2016) **Standard Met? :** Standard Not Met Of the 12 teams, 8 (67%) were able to build the circuit and test it without any help and 4 teams (33%) required a minor amount of help. (04/28/2016) **Faculty Assessment Leader:** Bob Diaz	**Action:** Include more instruction on how to prototype circuits. (03/01/2018) **Action Category:** Teaching Strategies **Follow-Up:** See that the teams are doing better. (06/27/2022)
SLO #2 Advanced In-Circuit Measurements - The student will make advanced "in-circuit" measurements using Bench and Portable Digital Multimeter (DMM), Oscilloscope, and Voltage Ohm (VOM), Milliamp Meter, on Advanced Solid-State-Systems. **Course SLO Status:** Active **Course SLO Assessment Cycle:** 2017-18 (Spring 2018), 2019-20 (Spring	**Laboratory Project/Report -** Students will make circuit tests and record the data. I expect 75% of the students to do this task without any help. **Standard and Target for Success:** 75	**Semester and Year Assessment Conducted:** 2017-18 (Spring 2018) **Standard Met? :** Standard Met Of the 16 students checked, 14 (88%) were able to do this without help and 2 needed additional help. (03/22/2018) **% of Success for this SLO:** 88 **Faculty Assessment Leader:** Robert Diaz	**Action:** Create a handout to give the students showing how to make measurements. (09/25/2019) **Action Category:** Teaching Strategies

Course SLOs	Assessment Method Description	Results	Actions
2020) **Input Date:** 11/12/2013			
SLO #3 Experimental Data and Analysis Reporting - The students will be able to incorporate experimental data and analysis reporting protocols, using either “paper” or “paperless” environments, similar to data reporting and analysis used by many Electronics Manufacturers and Service Organizations. **Course SLO Status:** Active **Course SLO Assessment Cycle:** 2015-16 (Spring 2016), 2017-18 (Spring 2018), 2019-20 (Spring 2020) **Input Date:** 11/12/2013	**Laboratory Project/Report -** Based on measurements made, students are to record the results onto their lab sheets. **Standard and Target for Success:** A minimum of 75ofhte students should be able do task without help.	**Semester and Year Assessment Conducted:** 2017-18 (Spring 2018) **Standard Met? :** Standard Met Of the 12 students filling out the data for the lab, 10, 83%, needed help. did this correctly and 2, 17%, (05/02/2018) **% of Success for this SLO:** 83 **Faculty Assessment Leader:** Robert Diaz	**Action:** Verify that the teams are able to do this. (06/26/2022) **Action Category:** SLO/PLO Assessment Process **Follow-Up:** See if this works well. (05/03/2022)
		Semester and Year Assessment Conducted: 2015-16 (Spring 2016) **Standard Met? :** Standard Met Of the 12 teams, 10 (83%) recorded the data as required without help, 2 (17%) teams needed to be reminded t fill in all the data. (04/28/2016) **Faculty Assessment Leader:** Bob Diaz	**Action:** Remind students to read instructions and fill out all the data before grading. (03/01/2018) **Action Category:** Teaching Strategies **Follow-Up:** See that the teams are doing better. (06/27/2022)

ECC: ECHT 142:Computer Systems and Hardware Technologies II

Course SLOs	*Assessment Method Description*	*Results*	*Actions*
SLO #1 Course Notebook - The students will assemble and maintain a five-section course notebook. **Course SLO Status:** Active **Course SLO Assessment Cycle:** 2017-18 (Spring 2018) **Input Date:** 11/12/2013	**Journal/Log -** SLO #1 Course Network - Student will assemble and maintain a five-section course notebook **Standard and Target for Success:** Student Notebook will be graded based on following specified instruction 3- Mastery Level (100-90%)Student Notebook graded based on following specified instruction, showed Mastery 2- Partial Mastery (89-70%)Student Notebook graded based on following specified instruction, showed Partial mastery 1- Non Mastery (69-0%) Student Notebook graded based on following specified instruction, showed Nom Mastery **Related Documents:** EDOCUMENTSLO142CLASS.doc	**Semester and Year Assessment Conducted:** 2017-18 (Spring 2018) **Standard Met? :** Standard Met In this particular semester 9 students enrolled. 8 Students achieved a Full Mastery level, 100-90%, will identify various computer parts and build a specific pc type as required. 1 Students achieved a Partial Mastery level, 89-70%, will identify various computer parts and build a specific pc type as required. 0 Students achieved a Non Mastery level, 69-0, will identify various computer parts and build a specific pc type as required. (07/03/2018) **% of Success for this SLO:** 80 **Faculty Assessment Leader:** PAUL AKHIGBE **Related Documents:** EDOCUMENTSLO142CLASS.doc	**Action:** Break up students into cohorts to aid students struggling with the materials. (07/10/2022) **Action Category:** Teaching Strategies
SLO #2 Troubleshooting Techniques - The student will be able to demonstrate advanced skill levels in their knowledge of repairing computer systems using system troubleshooting techniques introduced within the scope of the class. **Course SLO Status:** Active **Course SLO Assessment Cycle:** 2017-	**Laboratory Project/Report -** Students will be able to identify various server parts and build a computer server in team of two **Standard and Target for Success:** The goal of this standard is to achieve at least 75% Mastery 3- Mastery level (100-90%) Clearly identifies the knowledge to knowledge to select relevant parts	**Semester and Year Assessment Conducted:** 2017-18 (Spring 2018) **Standard Met? :** Standard Met Of the 9 students enrolled in this course. 8 Students achieved a Full Mastery level, 100-90%, Clearly identifies the knowledge to knowledge to select relevant parts to build a computer server.1 Students achieved a Partial Mastery level, 89-70%, Identifies server parts in a slow pace compared to other students. 0 Students achieved a Non Mastery level, 69-0, Have difficulty in identifying server	**Action:** Break class in a cohorts to help those students that are not able to achieve master level. (07/10/2022) **Action Category:** Teaching Strategies

Course SLOs	Assessment Method Description	Results	Actions
18 (Spring 2018) **Input Date:** 11/12/2013	to build a computer server 2- Partial Mastery (89-90%) Identifies server parts in a slow pace compared to other students. 1- Non Mastery (69-0%) Have difficulty in identifying server parts to computer server **Additional Information:** SLO#2 **Related Documents:** EDOCUMENTSLO142CLASS.doc	parts to computer server. (07/10/2018) **% of Success for this SLO:** 80 **Faculty Assessment Leader:** PAUL AKHIGBE **Related Documents:** EDOCUMENTSLO142CLASS.doc	
SLO #3 OEM Specifications - The student will be able to demonstrate their knowledge in using commercially available diagnostic tools to verify a system meets original equipment manufacturer (OEM) specifications. **Course SLO Status:** Active **Course SLO Assessment Cycle:** 2017-18 (Spring 2018) **Input Date:** 11/12/2013	**Performance -** The students will be able to demonstrate their knowledge of using Remote Desktop Protocol to access a computer server in a remote location to perform required update that will enhance the full functionality of the server. **Standard and Target for Success:** The students were observed accessing the classroom server from their individual workstation. From this activity 90% of the students results fall with 100-90% range and 10% of the students fall within 89-79% range **Related Documents:** EDOCUMENTSLO142CLASS.doc	**Semester and Year Assessment Conducted:** 2017-18 (Spring 2018) **Standard Met? :** Standard Met On this SLO, out of a class of 9. 8 Students achieved a Full Mastery level, 100-90%. The students were able to demonstrate Mastery Level knowledge of using Remote Desktop Protocol to access a computer server in a remote location to perform required update that will enhance the full functionality of the server. 1 Students achieved a Partial Mastery level, 89-70%. The student was only able to demonstrate Partial Mastery Level knowledge of using Remote Desktop Protocol to access a computer server in a remote location to perform required update that enhanced the full functionality of the server. 0 Students achieved a Non Mastery level, 69-0. The students was not able to demonstrate Partial Mastery Level knowledge of using Remote Desktop Protocol to access a computer server in a remote location to perform required update that enhanced the full functionality of the server. (07/17/2018) **% of Success for this SLO:** 80 **Faculty Assessment Leader:** PAUL AKHIGBE **Related Documents:** EDOCUMENTSLO142CLASS.doc	**Action:** Break class into cohorts to enable stronger students to help the students that are struggling with the materials. (07/17/2022) **Action Category:** Teaching Strategies

ECC: ECHT 148 :CompTIA Security+ Certification Preparation for Computer Hardware Systems

Course SLOs	*Assessment Method Description*	*Results*	*Actions*
SLO #1 Course Notebook - The students will assemble and maintain a five-section course notebook. **Course SLO Status:** Active **Course SLO Assessment Cycle:** 2013-14 (Fall 2013), 2017-18 (Summer 2018), 2018-19 (Spring 2019) **Input Date:** 11/12/2013	**Journal/Log -** Students will demonstrate their ability to organize individual course notebook as directed in the course syllabus logically. **Standard and Target for Success:** 75% of the students will demonstrate the ability to categorize course materials in various sections of the course notebook. 100-75% Assignment/Assessment possible Mastery Level 3. Students will be able to perfectly organize various sections of the course notebook as directed in the class syllabus 74-65 % Assignment /Assessment possible Mastery Level 2. Partially able to follow instruction on organizing logically the course notebook as directed in the class syllabus 64- 0% Assignment / Assessment possible Non-Mastery Level. Cannot follow instruction in organizing course notebook as directed in the class syllabus.	**Semester and Year Assessment Conducted:** 2013-14 (Fall 2013) **Standard Met? :** Standard Met 17 students participated in this assessment data. Of the 17 students, 6 of the students' attained results in the 100-90% accuracy level range; 4 of the students' attained results in the 89-79% accuracy level range; 6 of the students attained results with at least a 78-67% accuracy level range; and 1 of the students attained results in the 66-54% accuracy level range. The data observed shows a pattern of high student achievement with 35% of the students submitted results with a 100-90% accuracy; while 24% of the students submitted results with at least 89-79% accuracy; 35% of the students submitted results with at least 78-67% accuracy. As the data shows, approximately 59% of the students had a high mastery level, while 35% had an acceptable mastery in the assessment measurement. The remaining 6% with a mastery level that needs improvement should improve with the addition of further course work and more studying of the core materials. (03/27/2014) **Faculty Assessment Leader:** John Ruggirello **Related Documents:** ECHT148_SLO.doc	**Action:** Teaching methods will continue to be improved upon to meet stated goal. (09/14/2018) **Action Category:** Teaching Strategies
	Performance - 75% of the students will demonstrate the ability to categorize course materials in various sections of the course notebook. 100-75%	**Semester and Year Assessment Conducted:** 2017-18 (Summer 2018) **Standard Met? :** Standard Met 9 students participated in this assessment data. Of the 9 students, 8 of the students' attained results in the 100-90%	**Action:** Before the notebook's final student assessment, the faculty member will randomly review the content of the

Course SLOs	Assessment Method Description	Results	Actions
	Assignment/Assessment possible Mastery Level 3. Students will be able to perfectly organize various sections of the course notebook as directed in the class syllabus 74-65 % Assignment /Assessment possible Mastery Level 2. Partially able to follow instruction on organizing logically the course notebook as directed in the class syllabus. **Standard and Target for Success:** It is expected that 75% of the student 70 % or above.	accuracy level range; 1 of the students' attained results in the 89-79% accuracy level range; none of the students attained results with at least a 78-67% accuracy level range; and 0 of the students attained results in the 66-54% accuracy level range. (12/17/2017) **% of Success for this SLO:** 90 **Faculty Assessment Leader:** Paul Akhigbe	student's notebook and make recommendations for improvement (09/09/2022) **Action Category:** Teaching Strategies **Follow-Up:** Before final evaluation of the notebook, the faculty member will make a cursory review of t he student's notebook materials (09/09/2022) **Action:** Break up students into cohorts to aid students struggling with the materials. (09/14/2019) **Action Category:** Teaching Strategies
	Journal/Log - Students will demonstrate their ability to organize individual course notebook as directed in the course syllabus logically. **Standard and Target for Success:** It is expected that 75% of the students will demonstrate the ability to categorize course materials in various sections of the course notebook. 15% of the class will be able to demonstrate Assignment/Assessment possible Mastery Level 3. Students will be able to perfectly organize various sections of the course notebook as directed in the class syllabus. And 8 % will demonstrate Assignment /Assessment possible Mastery Level 2. Partially able to follow instruction on organizing logically the course notebook as directed in the class syllabus. Lastly	**Semester and Year Assessment Conducted:** 2018-19 (Spring 2019) **Standard Met? :** Standard Met 9 students participated in this assessment data. Of the 9 students, 8 of the students' attained results in the 100-90% accuracy level range; 1 of the students' attained results in the 89-79% accuracy level range; none of the students attained results with at least a 78-67% accuracy level range; and 0 of the students attained results in the 66-54% accuracy level range. (09/10/2019) **Faculty Assessment Leader:** Paul Akhigbe	**Action:** Before the notebook's final student assessment, the faculty member will randomly review the content of the student's notebook and make recommendations for improvement> (09/10/2020) **Action Category:** Teaching Strategies

Course SLOs	Assessment Method Description	Results	Actions
	it is expected that 2% will not be able to demonstrate Assignment / Assessment possible Non-Mastery Level. Cannot follow instruction in organizing course notebook as directed in the class syllabus.		
SLO #2 Information Security - Students will demonstrate their knowledge of information security, system threats and risks, protecting systems, network vulnerabilities, network defenses, wireless network security, security audits and policies, cryptographic methods, and the basics of computer forensics **Course SLO Status:** Active **Course SLO Assessment Cycle:** 2017-18 (Summer 2018), 2018-19 (Spring 2019)	**Performance -** Students will be given a computer scenario to identify computer threats and defend against identify threat using software. **Standard and Target for Success:** Standard and Target for Success: 75% of the students will demonstrate the ability to identify computer security threats and defend network systems using security software tools 100-75% Assignment/Assessment possible Mastery Level 3. Students will be able to identify computer security threats and defend network systems using security software tools 74-65 % Assignment /Assessment possible Mastery Level 2. Partially able to identify computer security threats and defend network systems using security software tools 64- 0% Assignment / Assessment possible Non-Mastery Level. Cannot identify computer security threats and defend network systems using security software tools.	**Semester and Year Assessment Conducted:** 2017-18 (Summer 2018) **Standard Met? :** Standard Met The data observed shows a pattern of high student achievement with 35% of the students submitted results with a 100-90% accuracy; while 24% of the students submitted results with at least 89-79% accuracy; 40% of the students submitted results with at least 78-67% accuracy. As the data shows, approximately 59% of the students had a high mastery level, while 30% had an acceptable mastery in the assessment measurement. The remaining 6% with a Non-Mastery Level. (09/14/2018) **% of Success for this SLO:** 75 **Faculty Assessment Leader:** Paul Akhigbe	**Action:** Students will continue to improve by implementing the same teaching strategies by researching more about current computer security vulnerabilities. (09/14/2019) **Action Category:** Teaching Strategies
	Performance - Students will be given	**Semester and Year Assessment Conducted:** 2018-19	

Course SLOs	Assessment Method Description	Results	Actions
	a computer scenario to identify computer threats and defend against various threats using different security. software. **Standard and Target for Success:** 75% of the students will demonstrate the ability to identify security threats and defend network systems using security software tools 20% of the students will demonstrate partial mastery level in being able to identify and defend network systems using security software tools 5% of the students with non-mastery level will not be able able to identify and defend network systems using security software tools	(Spring 2019) **Standard Met? :** Standard Met The data observed shows a pattern of high student achievement with 35% of the students submitted results with a 100-90% accuracy; while 24% of the students ; while 24% of the students submitted results with at least 87-79% accuracy; 40% of the students submitted results with at least 78-67% accuracy. As the data shows, approximately 59% of the students had a high mastery level, while 30% had an acceptable mastery in the assessment measurement. The remaining 6% with a Non-Mastery Level. (09/12/2019) **% of Success for this SLO:** 80 **Faculty Assessment Leader:** Paul Akhigbe	**Action:** Students will continue to improve by implementing the same teaching strategies by researching more about current computer security vulnerabilities. (09/12/2020) **Action Category:** Teaching Strategies
SLO #3 Cybersecurity - Students will demonstrate their knowledge of “Chain of Custody” handling procedures of physical evidence in matters of cybersecurity. **Course SLO Status:** Active **Course SLO Assessment Cycle:** 2017-18 (Summer 2018), 2018-19 (Spring 2019) **Input Date:** 11/12/2013	**Presentation/Skill Demonstration -** Students will demonstrate their knowledge of " Chain of Custody" handling procedures of physical evidence in matters of Cybersecurity. **Standard and Target for Success:** Students will be assessed on a "4" to "0" scale. A "4" will indicate a 100-90% mastery level. A "3" will indicate a 89-79% mastery level. A "2" will indicate a 78- 67% mastery level. A "1" will indicate a 66-54% mastery level. And, a will indicate a 54-0% mastery level.	**Semester and Year Assessment Conducted:** 2017-18 (Summer 2018) **Standard Met? :** Standard Met 9 students participated in this assessment data. Of the 9 students, 4 of the students’ attained results in the 100-90% accuracy level range; 4 of the students’ attained results in the 89-79% accuracy level range; 1 of the students attained results with at least a 78-67% accuracy level range; and 0 of the students attained results in the 66-54% accuracy level range. 80% of the students were successful. (09/14/2018) **% of Success for this SLO:** 80 **Faculty Assessment Leader:** Paul Akhigbe	**Action:** Break up students into cohorts to aid students struggling with the materials. (09/14/2019) **Action Category:** Teaching Strategies

Course SLOs	Assessment Method Description	Results	Actions
	Additional Information: Because of the importance of Chain of Custody in handling procedures of physical evidence in Cybersecurity students practice of the processes involved is necessary.		
	Presentation/Skill Demonstration - Students will demonstrate their knowledge of "Chain of Custody" handling procedures of physical evidence in matters of Cyber security. Students will be assessed on a 4 to 0 scale. A "4" will indicate a 100-90% Full Mastery level. A "3" will indicate a 89-79% Mastery level. A"2" will indicate a 78-67% Partial Mastery level A "1" will indicate a 67-54% Partial Mastery level A "54-0% non mastery level **Standard and Target for Success:** It is expected that 85 % of the students should score with a 75% or better on this SLO.	**Semester and Year Assessment Conducted:** 2018-19 (Spring 2019) **Standard Met? :** Standard Met 9 students participated in this assessment data. Of the 9 students, 4 of the students' attained results in the 100-90% accuracy level range; 4 of the students' attained results in the 89-79% accuracy level range; 1 student attained results with at least a 78-67% accuracy level range; and there were no students scored in the 66-54% accuracy level range. 80% of the student met standard target. (09/12/2019) **% of Success for this SLO:** 80 **Faculty Assessment Leader:** Paul Akhigbe	**Action:** Break up students into cohorts to aid students struggling with the materials. (09/12/2020) **Action Category:** Teaching Strategies

ECC: ECHT 22:Basic Electronic Fabrication

Course SLOs	*Assessment Method Description*	*Results*	*Actions*
SLO #1 Tools &Test Equipment - Upon successful completion of this course, students will be able to identify and safely operate/manipulate various types of electronic hand tools and test equipment. **Course SLO Status:** Active **Course SLO Assessment Cycle:** 2014-15 (Spring 2015), 2017-18 (Spring 2018) **Input Date:** 11/12/2013	**Directly related to SLO**	**Semester and Year Assessment Conducted:** 2019-20 (Fall 2019) **Standard Met? :** Standard Met N= 23 students Mastery Level 3 (earning 100-75 % possible points) Clearly able to identify and give applications of use for various types of electronic hand tools and test equipment Points 30- 23 20 # Students 86.9 % Partial Mastery 2 (earning 74-65 % possible points Somewhat able to identify and give applications of use for various types of electronic hand tools and test Points 22- 19.5 3 # Students 13% Non Mastery 1 (earning 64-0 % possible points) "Can't" identify and give applications of use for various types of electronic hand tools and test equipment Points 21- 19 0 # Students (09/04/2019) **Number of Students who Participated in this Assessment:** 23 **Number of Students Who Successfully Met the Standard for this Assessment:** 23 **% of Success for this SLO:** 100 **Faculty Assessment Leader:** Steve Cocca **Related Documents:** ECHT 22 SLO #1 Tools &Test Equipment.doc	**Action:** Be cause all students need to pass this safety test before working in the laboratory. I will provide the students a copy of my Power Point slides covering safety. By doing this we should achieve results 100% Mastery in the future (11/14/2024) **Action Category:** Teaching Strategies **Action:** Provide the students a copy of the Safety Instruction Power Point Presentation (11/14/2019) **Action Category:** Teaching Strategies
	Exam/Test/Quiz - Students will demonstrate their abilities to	**Semester and Year Assessment Conducted:** 2019-20 (Fall 2019)	**Action:** The instructor will prepare a "Mock-up" board outing various

Course SLOs	Assessment Method Description	Results	Actions
	identify and safely operate/manipulate various types of electronic hand tools and test equipment. **Standard and Target for Success:** 75% of the students will demonstrate the ability to identify and safely operate/manipulate various types of electronic hand tools and test equipment at Mastery Level 3. (100-75 % Assignment/Assessment possible) Mastery Level 3 Students will be able to identify and safely operate/manipulate various types of electronic hand tools and test equipment through an administered safety exam. (74-65 % Assignment/Assessment possible) Partial Mastery 2 Partially is able to identify and safely operate/manipulate various types of electronic hand tools and test equipment through an administered safety exam. Ability to make "in-circuit" Measuring Voltages and Currents measurements: Non Mastery 1 (64- 0 % Assignment/Assessment possible) "Cannot" develop conclusions on the identity and safe operation/manipulation of various types of electronic hand tools and test equipment through an administered safety exam	**Standard Met? :** Standard Met Students N= 23 Mastery Level 3 (earning 100-75 % possible points) Clearly was able to produce a functional Low Voltage, (DC), direct Current Power Supply project sample, that meets predetermined specifications, which could be potentially "mass" produced # Students 20 86.9% Partial Mastery 2 (earning 74-65 % possible points Somewhat was able to produce a functional Low Voltage, (DC), direct Current Power Supply project sample, that meets predetermined specifications, which could be potentially "mass" produced # Students 2 8.69% Non Mastery 1 (earning 64-0 % possible points) "Can Not" produce a functional Low Voltage, (DC), direct Current Power Supply project sample, that meets predetermined specifications, which could be potentially "mass" produced # Students 0 0% (11/30/2019) **Number of Students who Participated in this Assessment:** 23 **Number of Students Who Successfully Met the Standard for this Assessment:** 20 **% of Success for this SLO:** 86.9 **Faculty Assessment Leader:** Steve Cocca **Related Documents:** ECHT22 SLO1 Assessment FALL 19.docx	aspects of assembly and testing (11/30/2019) **Action Category:** Teaching Strategies
		Semester and Year Assessment Conducted: 2017-18 (Spring 2018) **Standard Met? :** Standard Met 20 Students (90.9%) achieved Mastery Level 3 (100-75% possible points), 2 students (0.09%) achieved Partial	**Action:** Students will be given multiple instruction refreshers to reinforce concepts. (09/01/2016) **Action Category:** Teaching Strategies

Course SLOs	Assessment Method Description	Results	Actions
	Related Documents: ECHT 22 SLO #1 Tools &Test Equipment.doc	Mastery Level 2 (74-65% possible points), and 0 students (0%) achieved Non-mastery 1 (64-0% possible points). (02/15/2018) **% of Success for this SLO:** 85 **Faculty Assessment Leader:** Steve Cocca **Faculty Contributing to Assessment:** None **Related Documents:** ECHT 22 SLO #1 Tools &Test Equipment.doc	**Follow-Up:** Develop a " Practicum" in students using the various tools outlined to create a fabrication sample (05/18/2022)
	Exam/Test/Quiz - After a lecture on hand tool safety, the student, through a written quiz, will be able to identify and give a response of the correct application for the use of said tools. **Standard and Target for Success:** Standard and Target for Success: 75% Ability to make ": Tools &Test Equipment Mastery Level 3 (100-75 % Assignment/Assessment possible) Identify and give application of use for various types of electronic hand tools and test equipment. Ability to make: Tools &Test Equipment Partial Mastery 2 (74-65 % Assignment/Assessment possible) Somewhat able to identify and give application of use for various types of electronic hand tools and test equipment. Ability to make: Tools &Test Equipment Partial Mastery 1 (74-65 % Assignment/Assessment possible)	**Semester and Year Assessment Conducted:** 2019-20 (Fall 2019) **Standard Met? :** Standard Met Students N= 23 Mastery Level 3 (earning 100-75 % possible points) Clearly was able to produce a functional Low Voltage, (DC), direct Current Power Supply project sample, that meets predetermined specifications, which could be potentially "mass" produced # Students 20 % 86.9 Partial Mastery 2 (earning 74-65 % possible points Somewhat was able to produce a functional Low Voltage, (DC), direct Current Power Supply project sample, that meets predetermined specifications, which could be potentially "mass" produced # Students 2 % 8.69	**Action:** The instructor will prepare a "Mock-up" board outing various aspects of assembly and testing (12/01/2020) **Action Category:** Teaching Strategies

Course SLOs	Assessment Method Description	Results	Actions
	Unable to identify and give application of use for various types of electronic hand tools and test equipment.	Non Mastery 1 (earning 64-0 % possible points) “Can Not” produce a functional Low Voltage, (DC), direct Current Power Supply project sample, that meets predetermined specifications, which could be potentially “mass” produced	
	Related Documents: ECHT22 SLO1 Assessment FALL 19.docx	# Students 0 % 0 (12/01/2019) **Number of Students who Participated in this Assessment:** 22 **Number of Students Who Successfully Met the Standard for this Assessment:** 20 **% of Success for this SLO:** 86.9 **Faculty Assessment Leader:** Steve Cocca	