Assessment Impact by Unit Objectives

College of Micronesia - FSM

A - instruction - Electronics Technology (AAS)

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Mission Statement: The Electronic Technology Program will provide much needed vocational and technical training to all the Nation's States. Its primary purpose is to provide students with marketable entry-level skills in the electronic industry or any related field/career. The program qualifies students to take external licensure, vendor-based, or skill standards examinations in the field. If standardized external exams are not available in the field of study, the program prepares students at skill levels expected of employees in an occupation found in the workforce. The academic and technical coursework will also prepare students to pursue advanced training in the area at higher institution

Program Student Learning Outcome: PSLO 1

Practice safety and occupational health procedures in the workplace.

PSLO Assessment Cycle: 2012 - 2013
Start Date: 08/20/2012
Inactive Date: 05/16/2013
PSLO Status: Inactive

Assessment Strategies			
Assessment Strategy	**Target**	**Notes**	**Active**
• Actual wearing of PPE and practice of safety procedures during workshop. • Q & A about PPE in the workshop. **Assessment Type:** Presentation/Performance	70 % of the students registered in the course should attain a grade of "C" or better.		Yes

Related Courses

- VSP 121 - Industrial safety

Related Tasks

* Task Name: Describe the different safety practices in the workshop.
> **Task Description:** Students will explain the different safety practices in the workshop.

* Task Name: Identify the different type of PPE equipment
> **Task Description:** The students using actual and picture PPE equipment will name and describe the use of each PPE equipment.

* Task Name: Use PPE in the workshop.
> **Task Description:** The teacher will show to the students different PPE. Student will demonstrate to the class how and when it will be used in the workshop.

Results			
Result	**Improvement**	**Follow-Up**	**Reporting Period**
Presentation/Performance - 10/16/2013 - VEE 224 result: There were 2 students got A , 8 students got B and 1 got F for absenteeism. 91% of the students got a grade higher than 70% or C. VEE 225 result: 1 students got A, 11 students got B and 1 student got F for absenteeism. 92% of the students got a grade higher than 70% or C. **Target Met:** Yes			2012 - 2013

Program Student Learning Outcome: PSLO 2

Use electronics tools and test equipment competently.

PSLO Assessment Cycle: 2012 - 2013
Start Date: 08/19/2013
Inactive Date: 05/08/2014
PSLO Status: Active

Assessment Strategies			
Assessment Strategy	**Target**	**Notes**	**Active**
• Student will perform actual circuit construction, signal and voltage measurement. • Student will describe the different tools and equipment use in electronics. **Assessment Type:** Presentation/Performance	70 % of the students registered in the course should attain a grade of "C" or better.		Yes

Related Courses

- VEE 103 - Electronics Fundamentals I

- VEE 104 - Electronics Fundamental II

- VEE 110 - Discrete Devises I

- VEE 125 - Electronic Circuits

Related Tasks

* Task Name: Identify different type of tools and test equipment in the shop.

Task Description: Given the tools and test equipment in the shop the students will describe what, how and when each piece is use in the workshop.

Results			
Result	**Improvement**	**Follow-Up**	**Reporting Period**
Presentation/Performance - 09/17/2013 - In VEE 135, 14 out of 14 or 100% of the students got a grade of C and better. **Target Met:** Yes			2012 - 2013

Program Student Learning Outcome: PSLO 3

Interpret schematic diagrams and waveforms.

PSLO Assessment Cycle: 2012 - 2013
Start Date: 08/19/2013
Inactive Date: 05/08/2014
PSLO Status: Active

Assessment Strategies			
Assessment Strategy	**Target**	**Notes**	**Active**
• Actual reading and circuit tracing of schematic diagram. • Student will describe the different symbols and signals found in schematic diagram. **Assessment Type:** Presentation/Performance	70 % of the students registered in the course should attain a grade of "C" or better.		Yes

Related Courses

- VEE 135 - Digital Electronis

- VEE 222 - Discrete Devices II

- VEE 235 - Digital Electronis II

- VEE 240 - Signal processing

Related Tasks

* Task Name: Describe the electrical and signal flow of a circuit.

Task Description: Using the block diagram and schematic diagram the students will identify, measure, describe and analyze the voltages, signal waveform of each circuit test points.

Results			
Result	**Improvement**	**Follow-Up**	**Reporting Period**
Presentation/Performance - 09/17/2013 - In VEE 240,15 out of 15 or 100% of the students got a grade of "C" and better. **Target Met:** Yes			2012 - 2013

Program Student Learning Outcome: PSLO 4

Build electronic project to a given specification.

PSLO Assessment Cycle: 2012 - 2013
   Start Date: 08/19/2013
  Inactive Date: 05/08/2014
   PSLO Status: Active

Assessment Strategies			
Assessment Strategy	**Target**	**Notes**	**Active**
• Actual electronics circuit construction. • Student will describe the correct procedure in electronics project assembly. **Assessment Type:** Presentation/Performance	70 % of the students registered in the course should attain a grade of "C" or better.		Yes

Related Courses

- VEE 100 - Soldering and Termination techniques

- VEM 110 - Workshop fabrication

Related Tasks

* Task Name: Assemble electronic circuits, terminate and connect wires / cables and connectors.

Task Description: The student will construct an electronic circuit by following the procedure and steps in project construction. Also they will be ask to terminate and connect connectors, wires and cables accordingly.

Results			
Result	**Improvement**	**Follow-Up**	**Reporting Period**
Assemble electronic circuits, terminate and connect wires / cables and connectors. - 06/11/2013 - In VEM 110 ,13 out of 14 students (93%) achieved a grade of 70% or better in the performance exam **Target Met:** Yes			2012 - 2013

Program Student Learning Outcome: PSLO 5

Perform troubleshooting techniques to maintain and resolve hardware/software related problems in a personal computer system.

PSLO Assessment Cycle: 2012 - 2013
Start Date: 08/19/2013
Inactive Date: 05/08/2014
PSLO Status: Inactive

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<tr><th colspan="4">Assessment Strategies</th></tr>
<tr><th>Assessment Strategy</th><th>Target</th><th>Notes</th><th>Active</th></tr>
<tr>
<td>Students were assessed based on written exam (on-line) and performance or skill-based exams.

Student performances are rated by instructor using a rubric: Three levels of performance, Exemplary, Developing, and Unacceptable.
• Exemplary – students who passed written exams with a score of 90 or higher. And students who performed practical tasks with no or minimum assistance from instructor to successfully complete assigned tasks.
• Developing – students who passed written exams with a score between 70 and 89. And students who performed practical tasks with some assistance from instructor to successfully complete assigned tasks.
• Unacceptable – students who failed [60 or below] written exams and performed poorly in completing tasks or never completed tasks.
Assessment Type:
Presentation/Performance</td>
<td>70% of students assessment must achieve a score to 70% or better to pass</td>
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<td>Yes</td>
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Related Courses

- VEE 223 - PC repair

Related Tasks

* Task Name: Communication skills

    Task Description: Apply good communication skills to assess customer needs and provides solutions and recommendations for hardware

* Task Name: Computer Networking

    Task Description: Design and implement a basic computer network system

* Task Name: OS Installation

    Task Description: Install operating system (OS) and system drivers

* Task Name: PC Assembly

    Task Description: Disassemble and re-assemble of a PC system

* Task Name: System Configuration

    Task Description: Configuring and optimizing a computer operating system

<table>
<tr><th colspan="4">Results</th></tr>
<tr><th>Result</th><th>Improvement</th><th>Follow-Up</th><th>Reporting Period</th></tr>
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<td>System Configuration - 05/11/2013 - 29 students were assessed. 5 out of 29 students were exemplary; 15 out of 29 students were developing; 9 students were found unacceptable.
Target Met:
No</td>
<td>05/11/2013 - Develop and implement more opportunities for students to do more on this particular task.

Class project: Repair and restore old/dysfunctional computer systems.</td>
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<td>2012 - 2013</td>
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<td>OS Installation - 05/11/2013 - There were 29 students assessed. 15 out of 29 students were exemplary; 10 out of 29 students were developing; 4 students were found unacceptable.
Target Met:</td>
<td>08/08/2013 - Students who were assessed as developing need more time to practice in order to master the skill.</td>
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<td>2012 - 2013</td>
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Results			
Result	**Improvement**	**Follow-Up**	**Reporting Period**
No	Develop additional opportunities for students to do more of this kind of skills.		
Computer Networking - 05/11/2013 - 29 students were assessed. 15 out of 29 students were exemplary; 10 out of 29 students were developing; 4 out of 29 students were unacceptable. **Target Met:** No	08/08/2013 - Task contains two aspects, network design and network configuration Students who were rated developing are mostly due to network configuration skills. Develop and implement more actual network configuration exercises for students to practice.		2012 - 2013
Communication skills - 05/11/2013 - 29 students were assessed. 5 out of 29 students were rated as exemplary, 20 out of 29 students were rated as developing, and 4 out of 29 students were found as unacceptable **Target Met:** No	08/07/2013 - Students who were unacceptable or developing had difficulty with the reading materials. It is recommended that ESL089 should be a pre-requisite of this course. Create a class in which students will also enroll in the same section of EN123 Technical Communication class. Several of my lessons and a class project (power-point presentation) involved a lot of communication skills. The two courses could be complementing each other on these lessons.		2012 - 2013
PC Assembly - 05/10/2013 - 29 students were assessed. 26 out of 29 students were rated as exemplary, 4 out of 29 students were rated as unacceptable. **Target Met:** Yes			2012 - 2013

Program Student Learning Outcome: PSLO 6

Perform troubleshooting techniques to maintain, diagnose, and repair electronic equipment and devices.

PSLO Assessment Cycle: 2012 - 2013
Start Date: 08/19/2013
Inactive Date: 05/08/2014
PSLO Status: Active

Assessment Strategies			
Assessment Strategy	**Target**	**Notes**	**Active**
• The student will troubleshoot a defective video system and business machine. **Assessment Type:** Presentation/Performance	70 % of the students registered in the course should attain a grade of "C" or better.		Yes

Related Courses

- VEE 224 - Video System and Prodcut servicing

- VEE 225 - Business Machine Servicing

Related Tasks

* Task Name: Service, troubleshoot and repair video system product and business machine equipment.

    Task Description: The students will service, troubleshoot and repair actual defective video and business machine equipment using their combined learned theory and hands-on skills.

Results			
Result	**Improvement**	**Follow-Up**	**Reporting Period**
Presentation/Performance - 09/06/2013 - VEE 224 result: There were 2 students got A , 8 students got B and 1 got F for absenteeism. 91% of the students got a grade higher than 70% or C. VEE 225 result: 1 students got A, 11 students got B and 1 student got F for absenteeism. 92% of the students got a grade higher than 70% or C. **Target Met:** Yes	09/18/2013 - Must include LCD and LED TV technology on the course outline.		2012 - 2013