Academic Programs

Mission and Outcomes Development Worksheet 1

AP/AU Name	*AAS in Building Technology-CE*	**Campus**	*Pohnpei*
AP/AU Head	*Cirilo B. Recana*	**Assessment Period**	*FA13 – SP14*
Assessment Start Date	*August 2013*	**Assessment End Date**	*May 2014*

Institutional Mission Statement

Mission: Historically diverse, uniquely Micronesian and globally connected, the College of Micronesia-FSM is a continuously improving and student centered institute of higher education. The college is committed to assisting in the development of the Federated States of Micronesia by providing academic, career and technical educational opportunities for student learning.

Institutional Strategic Goals Supported

1) Focus on student success.
2) Emphasize academic offerings in service to national needs.

Department's Mission Statement

The career and technical training divisions of COM-FSM are learning communities dedicated to creating a high quality workforce through educational excellence and student success in collaboration with its diverse communities.

Department's Goals

1) Create and provide quality technical and career instructional programs, courses, and experiences that foster student learning consistent with workforce needs
2) Foster a positive college climate that supports learning, communication, recognition, and collaboration among a diverse faculty and student body.
3) Provide instructional, administrative and student support services to enable COM-FSM to meet the goal of creating a quality workforce.
4) Support and expand responsive services that provide student access into COM-FSM technical and career programs and courses and promote success within a diverse student body;
5) Develop and foster partnerships with business, industry, labor, employment and training agencies, and other educational institutions.
6) Promote COM-FSM technical and career program development through public relations and marketing activities, and business and industry contacts;
7) Attract and develop quality and diverse personnel committed to the goals of excellence and workforce skill standards;
8) Maintain current and accessible facilities and equipment, and acquire emerging technologies for the learning and work environments;
9) Promote continuous quality improvement in all COM-FSM technical and career activities and services, formal on-the-job (OJT) under the guidance of a skilled worker or journey worker and technical class.

AP/AU's Mission Statement

AP/AU's Outcomes

Outcome Name	Description of Outcome	Assessment Methodology
1. Practice safety and occupational health procedures in the workplace.	The wearing of personal protective equipment (PPE) and safety precaution during the workshop is the core emphasis of	• Checklist and procedure of PPE usage and general safety. • Written quiz / test different

	the lesson.	types of PPE and safety procedures.
Assessment Strategies	**Target**	**Notes**
• Actual wearing of PPE and practice of safety procedures during workshop. • Q & A about PPE in the workshop.	70% passing rate of all 1st and 2nd year students of AAS in Building Technology major in Construction Electricity taking VSP 121.	
Outcome Name	**Description of Outcome**	**Assessment Methodology**
2. Use electricity hand and power tools competently.	The proper use of hand and power tools on actual working circuit (circuit board) is the main focus of this outcome. It also includes the correct usage and maintenance of the tools.	• Experiment / Activity • Quiz and written test
Assessment Strategies	**Target**	**Notes**
• Student will perform actual circuit construction on the circuit board following the given procedures. • Student will describe the different tools and equipment use in electrical wiring installation.	70% of passing rate of all 1st and 2nd year students of AAS in Building Technology major in Construction Electricity taking VEM 110.	
Outcome Name	**Description of Outcome**	**Assessment Methodology**
3. Test electrical equipment.	The proper handling and use of electrical test equipment on actual/practical activities is the focus of this outcome.	• Performance checklist • Quiz and written test
Assessment Strategies	**Target**	**Notes**
• Measure electrical circuit parameters using multimeter and other related electrical/ electronic test equipment.	70% of passing rate of all 1st and 2nd year students of AAS in Building Technology major in Construction Electricity taking VEM 103, VEM 104, VEE 110 and VEE 222.	
Outcome Name	**Description of Outcome**	**Assessment Methodology**
4. Interpret schematic diagram and waveforms.	The student will be introduced on interpreting schematic diagrams,	• Experiment / Activity • Quiz and written test

	electrical symbols and waveforms use in electronics/electrical circuits	
Assessment Strategies	**Target**	**Notes**
• Actual reading and circuit interpretation of schematic symbols used in the diagram.	70% of passing rate of all 1st and 2nd year students of AAS in Building Technology major in Construction Electricity taking VEM 102, VEM 103, VEM 104, VEE 110 and VEE 222.	
Outcome Name	**Description of Outcome**	**Assessment Methodology**
5. Determine the amount of load per circuit.	Branch and load per circuit calculation will be introduced to students using an international standards provided by NEC.	• Quiz and written test
Assessment Strategies	**Target**	**Notes**
• Calculate branch circuit and load per circuit to determine wire size and ampacity. • Calculation must be followed on the prevailing standards of the NEC book.	70% passing rate of all 2nd year students of AAS in Building Technology major in Construction Electricity taking VEM 111, VEM 112 and VEM 212.	
Outcome Name	**Description of Outcome**	**Assessment Methodology**
6. Install residential wiring circuits according to given specification and plan.	Installation of different wiring methods and fixtures is the target of this outcome for the students to master.	• Performance checklist • Hands-on activity and written test
Assessment Strategies	**Target**	**Notes**
• Actual installation and practices used in residential wiring. • Proper use of different wiring methods and fixtures in the installation.	2nd year students of AAS in Building Technology major in Construction Electricity.	
Outcome Name	**Description of Outcome**	**Assessment Methodology**
7. Identify and interpret basic solid state (electronics) symbols and schematics commonly found in the	Actual solid state devices and its schematic symbols used in electronic circuit is the focus of this outcome for the students to familiarize.	• Experiment / Activity • Quiz and written test

electrical industry.		
Assessment Strategies	**Target**	**Notes**
• Identifying solid state devices used in the experiment and its schematic symbols. • Perform circuit tracing and identifying solid state devices operation and function.	1st and 2nd year students of AAS in Building Technology major in Construction Electricity.	
Outcome Name	**Description of Outcome**	**Assessment Methodology**
8. Analyze circuit operations on basic motors.	AC and DC motor schematics and operating characteristics familiarization.	• Hands-on activity and written test
Assessment Strategies	**Target**	**Notes**
• Identifying AC/DC motor parts and functions. • Familiarize with the operation of the different AC/DC motors.	2nd year students of AAS in Building Technology major in Construction Electricity.	
Outcome Name	**Description of Outcome**	**Assessment Methodology**
9. Perform basic troubleshooting on basic motors.	Following steps/procedures in troubleshooting motor faults and remedy is the focus of this outcome.	• Hands-on activity • Performance checklist
Assessment Strategies	**Target**	**Notes**
• Troubleshoot motor faults using correct procedures. • Tabulate findings in troubleshooting and recommend remedy to motor faults.	2nd year students of AAS in Building Technology major in Construction Electricity.	
Outcome Name	**Description of Outcome**	**Assessment Methodology**
10. Install and perform basic maintenance on air-conditioning units.	Introduce students in the fundamentals of refrigeration and air-conditioning. Also includes preventive maintenance of air-conditioning unit.	• Hands-on activity and written test
Assessment Strategies	**Target**	**Notes**
• Follow procedures in performing preventive	2nd year students of AAS in Building Technology major in Construction Electricity.	

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maintenance of refrigeration and air-conditioning unit.		
Outcome Name	**Description of Outcome**	**Assessment Methodology**
11. Interpret and install circuits according to rules and regulations of the National Electrical Code book.	Familiarization of electrical standards on installation and use of wiring methods and fixtures is the focus of this outcome.	• Worksheet activity on using NEC book • Quiz and written test
Assessment Strategies	**Target**	**Notes**
• Familiarize on the use of NEC book for standards applicable to electrical wiring. • Answer worksheets using codes based on NEC standards.	2nd year students of AAS in Building Technology major in Construction Electricity.	
Outcome Name	**Description of Outcome**	**Assessment Methodology**
12. Install and analyze basic motor control circuits.	Circuitry, Installation and troubleshooting of motor control circuit are the focus of this outcome.	• Hands-on activity and Simutech software • Performance checklist • Quiz and written test
Assessment Strategies	**Target**	**Notes**
• Read and interpret motor control circuit. • Identify and install control components to a given ladder diagram. • Troubleshoot motor faults through simulation using Simutech software.	2nd year students of AAS in Building Technology major in Construction Electricity.	
Endorsed by		
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