

**Academic Programs  
Mission and Outcomes Development Worksheet**

Building Technology Major in  
Construction Electricity  

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**Academic Program**

Fall 2012 – Spring 2013  

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**Assessment Period Covered**  
August 2012  

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**Date Submitted**

**Institutional Mission/Strategic Goal:**

**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 Goal Supported**

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.

**Academic Program Mission Statement**

The Technology and Trade Division of COM-FSM is dedicated to create a high quality workforce through educational excellence and student success in collaboration with its diverse communities.

**Academic Program Goals**

1. Provide basic technical skills to prepare the students for position in the electrical industry.
2. Provide technical skills training and practical experience to prepare students as technicians in the electrical field.
3. Prepare students to become electrician in this field by introducing them in troubleshooting, installation of residential circuits, motors and control circuits.
4. Prepare students to develop their skills by involving them in actual electrical servicing/installation work.

**Academic Program Outcomes (As currently approved – add in additional sections as needed):** The students will be able to:

1. Practice safety and occupational health procedures in the workplace.
2. Use electricity hand and power tools competently.
3. Test electrical equipment.
4. Interpret schematic wiring diagrams and waveforms.
5. Determine the amount of load per circuit.
6. Install residential wiring circuits according to given specification and plan.
7. Identify and interpret basic solid state (electronics) symbols and circuits schematics commonly found in the electrical industry.
8. Analyze circuit operation on basic motors.
9. Perform basic troubleshooting on basic motors.
10. Install and perform basic maintenance on air-conditioning units.
11. Interpret and install circuits according to rules and regulations of the National Electrical Code book.
12. Install and analyze basic motor control circuits.

**Program Review Improvement Outcome**

1. Revise discrete devices I & II to incorporate as one semi-conductor course for electrical students.
2. Purchase NIDA training cards for discrete devices experiments.
3. Update Simutech troubleshooting skills series to latest edition.
4. Incorporate on the job training in the AAS Building Technology (electrical) course.
5. Continuous upgrade (training) of electrical instructors.
6. Modify BT courses to update students in present technology to include alternative energy sources like photovoltaic energy.