

Academic Program Assessment Plan Worksheet 2

AP/AU Name		AAS in Building Technology major in Construction Electricity		
Campus		PNI	Assessment Period	F2013-S2014
Submitted by		C.B. Recana	Date Submitted	Aug 2013
Type of Assessment	<input type="checkbox"/> <i>Formative Assessment</i> <input checked="" type="checkbox"/> <i>Summative Assessment</i>	Endorsed by	<input checked="" type="checkbox"/> <i>AP/AU Supervisor</i> <input type="checkbox"/> <i>Committee</i> _____	
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 the lesson.	<ul style="list-style-type: none"> Checklist and procedure of PPE usage and general safety. Written quiz / test different types of PPE and safety procedures. 		
Assessment Strategies		Target	Notes	
<ul style="list-style-type: none"> Actual wearing of PPE and practice of safety procedures during workshop. Q & A about PPE in the workshop. 		70% or better passing rate of 1 st and 2 nd yr students of AAS in Building Technology major CE.		
Evaluation Question	Data Sources	Sampling	Analysis	
Do the technical courses in AAS Building Technology such as: VSP 121, VEM 110, VEM 111, VEE 110, VEE 110, VEE 222, VEE 266 VEM 113 and VEM 240 have 70% (grade of " C") and above passing grade in their respective SLO's?	Hands-on workshop activities and written test.	All first year and second year students enrolled in VSP 121, VEM 110, VEM 111, VEE 110, VEE 110, VEE 222, VEE 266, VEM 113 and VEM 240.	Performance test score and written test score.	
Outcome Name	Description of Outcome	Assessment Methodology		
2. Use of 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.	<ul style="list-style-type: none"> Experiment / Activity Quiz and written test 		
Assessment Strategies		Target	Notes	
<ul style="list-style-type: none"> 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% or better passing rate of 1 st and 2 nd yr students of AAS in Building Technology major CE		

Evaluation Question	Data Sources	Sampling	Analysis
Do the technical courses in AAS Building Technology major CE such as: VEM 110, VEM 111, VEM 113 and VEM 240 have 70% (grade of "C") and above passing grade in their respective SLO's?	Hands-on workshop activities and written test.	All first year and second year students enrolled in VEM 110, VEM 111, VEM 113 and VEM 240.	Performance test score and written test score.
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.	<ul style="list-style-type: none"> Performance checklist Quiz and written test 	
Assessment Strategies		Target	
<ul style="list-style-type: none"> Measure electrical circuit parameters using multimeter and other related electrical/ electronic test equipment. 		70% or better passing rate of 1 st and 2 nd yr students of AAS in Building Technology major CE	
Evaluation Question	Data Sources	Sampling	Analysis
Do the technical courses in AAS in Building Technology major CE such as: VEM 103, VEM 104, VEM 105, VEE 110 and VEE 222 have 70% (grade of " C") and above passing grade in their respective SLO's?	Hands-on Experimental activities and written test.	All first year and second year students enrolled in VEM 103, VEM 104, VEM 105, VEE 110 and VEE 222.	Performance test score and written test score.
Outcome Name	Description of Outcome	Assessment Methodology	
4. Interpret schematic diagram and waveforms.	The student will be introduced on interpreting schematic diagrams, electrical symbols and waveforms use in electronics/electrical circuits.	<ul style="list-style-type: none"> Experiment / Activity Quiz and written test 	
Assessment Strategies		Target	Notes
<ul style="list-style-type: none"> Actual reading and circuit interpretation of schematic symbols used in the electrical plan and diagram. 		70% or better passing rate of 1 st and 2 nd yr students of AAS in Building Technology major in CE.	
Evaluation Question	Data Sources	Sampling	Analysis
Do the technical courses in AAS Building Technology major in CE such as: VEM 102, VEE 100, VEE 222, VEM 103 and VEM 104 have 70% (grade of "C") and above passing grade in their respective SLO's?	Hands-on workshop activities and written test.	All first year and second year students enrolled in VEM 102, VEE 100, VEE 222, VEM 103, and VEM 104.	Performance test score and written test score.

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.	<ul style="list-style-type: none"> Quiz and written test. 	
Assessment Strategies		Target	Notes
<ul style="list-style-type: none"> 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% or better passing rate of 2 nd yr students of AAS in Building Technology major in Construction Electricity.	
Evaluation Question	Data Sources	Sampling	Analysis
Do the students in AAS Building Technology major in Construction Electricity registered in VEM 111 and VEM 212 have 70% (grade of " C") and above passing grade in their respective SLO's?	Performance evaluation checklist rate sheet.	All second year students enrolled in VEM 111 and VEM 212.	<ul style="list-style-type: none"> Performance test score Written test score
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.	<ul style="list-style-type: none"> Performance checklist Hands-on activity and written test 	
Assessment Strategies		Target	Notes
<ul style="list-style-type: none"> Actual installation and practices used in residential wiring. Proper use of different wiring methods and fixtures in the installation. 		70% or better passing rate of 2 nd yr students of AAS in Building Technology major in Construction Electricity	
Evaluation Question	Data Sources	Sampling	Analysis
Do the major courses in AAS Building Technology major in CE such as VEM 110 and VEM 111 have 70% (grade of " C") and above passing grade in their respective SLO's?	Hands-on workshop activities and written test.	All second year students enrolled VEM 110 and VEM 111.	Performance test score and written test score.
Outcome Name	Description of Outcome	Assessment Methodology	
7. Identify and interpret basic solid state (electronics) symbols and schematics commonly found in the electrical industry.	Actual solid state devices and its schematic symbols used in electronic circuit is the focus of this outcome for the students to familiarize.	<ul style="list-style-type: none"> Experiment / Activity Quiz and written test 	

Assessment Strategies		Target	Notes
<ul style="list-style-type: none"> Identifying solid state devices used in the experiment and its schematic symbols. Perform circuit tracing and identifying solid state devices operation and function. 		70% or better passing rate of 2 nd yr students of AAS in Building Technology major in Construction Electricity	
Evaluation Question	Data Sources	Sampling	Analysis
Do the major courses in AAS Building Technology major in CE such as VEE110 and VEE 222 have 70% (grade of "C") and above passing grade in their respective SLO's?	Hands-on Experimental activities and written test.	All second year students enrolled VEE110 and VEE 222.	Performance test score and written test score.
Outcome Name	Description of Outcome		Assessment Methodology
8. Analyze circuit operations on basic motors.	AC and DC motor schematics and operating characteristics familiarization.		<ul style="list-style-type: none"> Hands-on activity and written test
Assessment Strategies		Target	Notes
<ul style="list-style-type: none"> Identifying AC/DC motor parts and functions. Familiarize with the operation of the different AC/DC motors. 		70% or better passing rate of 2 nd yr students of AAS in Building Technology major in Construction Electricity	
Evaluation Question	Data Sources	Sampling	Analysis
Do the major courses in AAS Building Technology major in CE such as VEE 266 and VEM 240 have 70% (grade of "C") and above passing grade in their respective SLO's?	Hands-on Experimental activities and written test.	All second year students enrolled VEE 266 and VEM 240.	Performance test score and written test score.
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.		<ul style="list-style-type: none"> Hands-on activity Performance checklist
Assessment Strategies		Target	Notes
<ul style="list-style-type: none"> Troubleshoot motor faults using correct procedures. Tabulate findings in troubleshooting and recommend remedy to motor faults. 		70% or better passing rate of 2 nd yr students of AAS in Building Technology major in Construction Electricity	
Evaluation Question	Data Sources	Sampling	Analysis

Do the major courses in AAS Building Technology major in CE such as VEE 266 have 70% (grade of “ C”) and above passing grade in their respective SLO's?	Hands-on activities and written test.	All second year students enrolled VEE 266.	Performance test score and written test score.
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.	<ul style="list-style-type: none"> Hands-on activity and written test 	
Assessment Strategies		Target	Notes
<ul style="list-style-type: none"> Follow procedures in performing preventive maintenance of refrigeration and air-conditioning unit. 		70% or better passing rate of 2 nd yr students of AAS in Building Technology major in Construction Electricity	
Evaluation Question	Data Sources	Sampling	Analysis
Do the major courses in AAS Building Technology major in CE such as VEM 105 and VEM 113 have 70% (grade of “ C”) and above passing grade in their respective SLO's?	Hands-on activities and written test.	All second year students enrolled VEM 105 and VEM 113.	Performance test score and written test score.
Timeline			
Activity	Who is responsible?	Date	
VEM 102 Electrical Drawing and Sketching	R. Victor	Fall 2013	
VEM 103 Basic Electricity I	R. Victor	Fall 2013	
VEM 104 Basic Electricity II	R. Victor	Spring 2014	
VSP 121 Electrical Safety	R. Victor	Fall 2013	
VEM 110 Workshop Fabrication (Electrical)	R. Victor	Fall 2013	
VEM 111 Electrical Wiring I	R. Victor	Spring 2014	
VEM 112 Electrical Wiring II	R. Victor	Spring 2014	
VEM 212 National Electrical Code	C. Recana	Fall 2013	
VEE 110 Discrete Device I	C. Recana	Fall 2013	
VEE 222 Discrete Device II	C. Recana	Spring 2014	
VEE 266 Rotating Machinery	C. Recana	Spring 2014	
VEM 105 Basic Electricity for Air-conditioning (AC)	B. Esteban	Fall 2013	

VEM 113 Refrigeration I	B. Esteban	Spring 2014
VEM 240 Industrial Wiring	C. Recana	Spring 2014
Comment		