# Unit Course Assessment Report - Four Column

# College of Micronesia - FSM

# A - instruction - Building Technology (AAS)

**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.

The Building Technology Majoring – Construction Electricity program offers academic course work, technical skills training and practical experience to prepare students as Electrician in this field. Students are introduced to theory, installation and practices in troubleshooting residential circuits, motor circuits and motor control circuits.

| Course Student Learning Outcomes | Assessment Strategies & Target / Tasks | Results | Improvement & Follow-Up |
|---|---|---|---|
| A - instruction - Building Technology (AAS) - VEE 266 - Rotating machinery - CSLO 1 - Describe the various devices that are called rotating machinery.<br>(Created By A - instruction - Building Technology (AAS))<br>**CSLO Assessment Cycle:**<br>2013 - 2014 (Fall 2013)<br>**Start Date:**<br>08/19/2013<br>**Inactive Date:**<br>12/09/2013<br>**CSLO Status:**<br>Active | **Assessment Strategy:**<br>Using NIDA CAI theory lesson on various rotating machinery and passing the final quiz.<br>**Assessment Type:**<br>Exam/Quiz - In Course<br>**Target:**<br>70% or grade of "C" or better of student register on this course. | 12/14/2012 - 13 out of 14 got 70% or better passing grade and showed mastery in the course VEE 266 during the Fall 2012 semester.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| A - instruction - Building Technology (AAS) - VEE 266 - Rotating machinery - CSLO 2 - Describe the operating characteristics of DC & AC Motors and Generators.<br>(Created By A - instruction - Building Technology (AAS))<br>**CSLO Assessment Cycle:**<br>2013 - 2014 (Fall 2013)<br>**Start Date:**<br>08/19/2013<br>**Inactive Date:**<br>12/09/2013<br>**CSLO Status:**<br>Active | **Assessment Strategy:**<br>One on one CAI using NIDA theory lesson on DC & AC motor/generator operating characteristics and passing the final quiz at the end of the lesson.<br>**Assessment Type:**<br>Exam/Quiz - In Course<br>**Target:**<br>70% or grade of "C" or better of student register on this course. | 09/16/2013 - 11 out of 14 students got the passing mark. 79% was achieved by the students in this SLO.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| A - instruction - Building Technology (AAS) - VEE 266 - Rotating machinery - CSLO 3 - | **Assessment Strategy:**<br>Using NIDA CAI theory lesson on stepper | 09/16/2013 - 14 out of 14 students got the passing mark. 100% was achieved by the students in this | |

| Course Student Learning Outcomes | Assessment Strategies & Target / Tasks | Results | Improvement & Follow-Up |
|---|---|---|---|
| Describe Stepper Motor and its operating characteristics. (Created By A - instruction - Building Technology (AAS))<br>**CSLO Assessment Cycle:**<br>2013 - 2014 (Fall 2013)<br>**Start Date:**<br>08/19/2013<br>**Inactive Date:**<br>12/09/2013<br>**CSLO Status:**<br>Active | motors operating characteristics and passing the final quiz.<br>**Assessment Type:**<br>Exam/Quiz - In Course<br>**Target:**<br>70% or grade of "C" or better of student register on this course. | SLO.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| A - instruction - Building Technology (AAS) - VEE 266 - Rotating machinery - CSLO 4 - Observe and troubleshoot DC & AC motors. (Created By A - instruction - Building Technology (AAS))<br>**CSLO Assessment Cycle:**<br>2013 - 2014 (Fall 2013)<br>**Start Date:**<br>08/19/2013<br>**Inactive Date:**<br>12/09/2013<br>**CSLO Status:**<br>Active | **Assessment Strategy:**<br>Using NIDA CAI theory lesson on troubleshooting AC & DC motor and demonstrate properly steps in troubleshooting motor faults.<br>**Assessment Type:**<br>Presentation/Performance<br>**Target:**<br>70% or grade of "C" or better of student register on this course. | 09/16/2013 - 12 out of 14 students got the passing mark. 86% was achieved by the students in this SLO.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| A - instruction - Building Technology (AAS) - VEM 212 - National Electric Code - CSLO 1 - Describe the purpose of the National Electrical Code (NEC). (Created By A - instruction - Building Technology (AAS))<br>**CSLO Assessment Cycle:**<br>2012 - 2013 (Fall 2012)<br>**Start Date:**<br>08/20/2012<br>**Inactive Date:**<br>12/11/2012<br>**CSLO Status:**<br>Active | **Assessment Strategy:**<br>Using their NEC textbook or e-copy, students will answer worksheet on the chapter that provides the main purpose of the NEC.<br>**Assessment Type:**<br>Exam/Quiz - In Course<br>**Target:**<br>70% or grade of "C" or better of student register on this course. | 05/17/2013 - 8 out of 8 students got a grade of "C" or better or 100% was achieved by the students in this CSLO.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| A - instruction - Building Technology (AAS) - | | | |

| Course Student Learning Outcomes | Assessment Strategies & Target / Tasks | Results | Improvement & Follow-Up |
|---|---|---|---|
| VEM 212 - National Electric Code - CSLO 3 - Define NEC terminologies. (Created By A - instruction - Building Technology (AAS))<br>**CSLO Assessment Cycle:**<br>2012 - 2013 (Fall 2012)<br>**Start Date:**<br>08/20/2012<br>**Inactive Date:**<br>12/11/2012<br>**CSLO Status:**<br>Active | **Assessment Strategy:**<br>Using NEC textbook or e-copy, students will look for the meaning of some terms commonly use in the NEC book.<br>**Assessment Type:**<br>Written Assignment<br>**Target:**<br>70% or grade of "C" or better of student register on this course. | 09/16/2013 - 8 out of 8 students got the passing mark. 100% was achieved by the students in this SLO.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| A - instruction - Building Technology (AAS) - VEM 212 - National Electric Code - CSLO 4 - Describe the organization of the NEC book. (Created By A - instruction - Building Technology (AAS))<br>**CSLO Assessment Cycle:**<br>2012 - 2013 (Fall 2012)<br>**Start Date:**<br>08/20/2012<br>**Inactive Date:**<br>12/11/2012<br>**CSLO Status:**<br>Active | **Assessment Strategy:**<br>Using their NEC textbook or e-copy, students will navigate through the different parts, chapters and code references of the NEC book.<br>**Assessment Type:**<br>Exam/Quiz - In Course<br>**Target:**<br>70% or grade of "C" or better of student register on this course. | 09/16/2013 - 7 out of 8 students got the passing mark. 88% was achieved by the students in this SLO.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| A - instruction - Building Technology (AAS) - VEM 212 - National Electric Code - CSLO 5 - Demonstrate navigation through the NEC book. (Created By A - instruction - Building Technology (AAS))<br>**CSLO Assessment Cycle:**<br>2012 - 2013 (Fall 2012)<br>**Start Date:**<br>08/20/2012<br>**Inactive Date:**<br>12/11/2012<br>**CSLO Status:**<br>Active | **Assessment Strategy:**<br>Using the text or e-copy of National Electrical Code, students will demonstrate and answer their worksheet on how to find provisions or standards on selected wiring methods.<br>**Assessment Type:**<br>Presentation/Performance<br>**Target:**<br>70% or grade of "C" or better of student register on this course. | 09/16/2013 - 6 out of 8 students got the passing mark. 75% was achieved by the students in this SLO.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| A - instruction - Building Technology (AAS) - VEM 212 - National Electric Code - CSLO 6 - Identify the roles of other organizations. (Created By A - instruction - Building | **Assessment Strategy:**<br>Given with acronyms of different testing laboratory and manufacturers associations, students will look for the meaning of each | 09/16/2013 - 7 out of 8 students got the passing mark. 88% was achieved by the students in this SLO.<br>**Target Met:** | |

| Course Student Learning Outcomes | Assessment Strategies & Target / Tasks | Results | Improvement & Follow-Up |
|---|---|---|---|
| Technology (AAS))<br>**CSLO Assessment Cycle:**<br>2012 - 2013 (Fall 2012)<br>**Start Date:**<br>08/20/2012<br>**Inactive Date:**<br>12/11/2012<br>**CSLO Status:**<br>Active | and their roles in NEC regulations.<br>**Assessment Type:**<br>Research<br>**Target:**<br>70% or grade of "C" or better of student register on this course. | Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| A - instruction - Building Technology (AAS) - VEM 240 - Industrial wiring - CSLO 1 - State the purpose and general principles of control components and circuits.<br>(Created By A - instruction - Building Technology (AAS))<br>**CSLO Assessment Cycle:**<br>2012 - 2013 (Spring 2013)<br>**Start Date:**<br>01/14/2013<br>**Inactive Date:**<br>05/08/2013<br>**CSLO Status:**<br>Active | **Assessment Strategy:**<br>Using the textbook for discussion purposes and answering the review exercise on the later part of the lesson.<br>**Assessment Type:**<br>Exam/Quiz - In Course<br>**Target:**<br>Student must get 70% or grade of "C" or better on this CSLO. | 05/17/2013 - 9 out of 10 students got the passing mark. 90% was achieved by the students in this SLO.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| A - instruction - Building Technology (AAS) - VEM 240 - Industrial wiring - CSLO 2 - Identify pilot devices both physically and schematically and describe their operating principles.<br>(Created By A - instruction - Building Technology (AAS))<br>**CSLO Assessment Cycle:**<br>2012 - 2013 (Spring 2013)<br>**Start Date:**<br>01/14/2013<br>**Inactive Date:**<br>05/08/2013<br>**CSLO Status:**<br>Active | **Assessment Strategy:**<br>Using the motor control trainer, students will identify actual control pilot devices, schematics symbol and operating principles. A checklist of devices and their symbols will be provided for easier familiarization of control components.<br>**Assessment Type:**<br>Presentation/Performance<br>**Target:**<br>Student must get 70% or grade of "C" or better on this CSLO. | 05/17/2013 - 9 out of 10 students got the passing mark. 90% was achieved by the students in this SLO.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| A - instruction - Building Technology (AAS) - VEM 240 - Industrial wiring - CSLO 3 - Interpret motor control wirings, connections, | **Assessment Strategy:**<br>Given a motor control condition, students will make ladder diagram as required in the | 05/17/2013 - 8 out of 10students got the passing mark. 80% was achieved by the students in this SLO. | |

| Course Student Learning Outcomes | Assessment Strategies & Target / Tasks | Results | Improvement & Follow-Up |
|---|---|---|---|
| and ladder diagrams. (Created By A - instruction - Building Technology (AAS))<br>**CSLO Assessment Cycle:**<br>2012 - 2013 (Spring 2013)<br>**Start Date:**<br>01/14/2013<br>**Inactive Date:**<br>05/08/2013<br>**CSLO Status:**<br>Active | control operation and connect the circuit on the control board. A performance checklist will be use.<br>**Assessment Type:**<br>Presentation/Performance<br>**Target:**<br>Student must get 70% or grade of "C" or better on this CSLO. | **Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| A - instruction - Building Technology (AAS) - VEM 240 - Industrial wiring - CSLO 4 - Select and size contactors, relays and timing relays and overload relays both physically and schematically and describe their operating principles. (Created By A - instruction - Building Technology (AAS))<br>**CSLO Assessment Cycle:**<br>2012 - 2013 (Spring 2013)<br>**Start Date:**<br>01/14/2013<br>**Inactive Date:**<br>05/08/2013<br>**CSLO Status:**<br>Active | **Assessment Strategy:**<br>Using their textbook and control board, students will connect schematically through ladder diagramming correct specs of control devices as required in the control operation.<br>**Assessment Type:**<br>Presentation/Performance<br>**Target:**<br>Student must get 70% or grade of "C" or better on this CSLO. | 05/17/2013 - 9 out of 10 students got the passing mark. 90% was achieved by the students in this SLO.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| A - instruction - Building Technology (AAS) - VEM 240 - Industrial wiring - CSLO 5 - Connect motor controllers for specific applications with emphasis on safety practices and in accordance with National Electrical Code (NEC) requirements. (Created By A - instruction - Building Technology (AAS))<br>**CSLO Assessment Cycle:**<br>2012 - 2013 (Spring 2013)<br>**Start Date:**<br>01/14/2013<br>**Inactive Date:**<br>05/08/2013<br>**CSLO Status:**<br>Active | **Assessment Strategy:**<br>A performance test will be use to assess students knowledge and skills learned in connecting the selected motor control circuit.<br>**Assessment Type:**<br>Presentation/Performance<br>**Target:**<br>Student must get 70% or grade of "C" or better on this CSLO. | 05/17/2013 - 8 out of 10 students got the passing mark. 80% was achieved by the students in this SLO.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |

| Course Student Learning Outcomes | Assessment Strategies & Target / Tasks | Results | Improvement & Follow-Up |
|---|---|---|---|
| A - instruction - Building Technology (AAS) - VEM 240 - Industrial wiring - CSLO 6 - Troubleshoot control and motor control circuit for basic to intermediate level faults. (Created By A - instruction - Building Technology (AAS))<br>**CSLO Assessment Cycle:**<br>2012 - 2013 (Spring 2013)<br>**Start Date:**<br>01/14/2013<br>**Inactive Date:**<br>05/08/2013<br>**CSLO Status:**<br>Active | **Assessment Strategy:**<br>A simulated troubleshooting technique using Simutech software to find and repair motor control circuit faults.<br>**Assessment Type:**<br>Presentation/Performance<br>**Target:**<br>Student must get 70% or grade of "C" or better in this CSLO. | 05/17/2013 - 9 out of 10 students got the passing mark. 90% was achieved by the students in this SLO.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| A - instruction - Electronics Technology (AAS) - VEE 222 - Discrete Devices II - SLO1 - Describe the purpose and operation of Unijunction Transistor (UJT) and Silicon Controlled Rectifier (SCR). (Created By A - instruction - Electronics Technology (AAS))<br>**CSLO Assessment Cycle:**<br>2012 - 2013 (Spring 2013)<br>2012 - 2013 (Summer 2013)<br>2013 - 2014 (Fall 2013)<br>**Start Date:**<br>08/19/2013<br>**Inactive Date:**<br>12/09/2013<br>**CSLO Status:**<br>Active | **Assessment Strategy:**<br>Using the NIDA trainer student will opearte a UJT and SCR devices. Written assessment will also be administer.<br>**Assessment Type:**<br>Presentation/Performance<br>**Target:**<br>70% or grade of "C" or better of the student register on this course. | 12/13/2013 - 13 out of 15 students or 87% of the students receive a grade of 70% or "C" and better.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013<br><br>05/16/2013 - 13 out of 15 or 87% of the students got a grade of 70% or "C" or better.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013<br><br>12/14/2012 - 9 out of 12 students or 75% got a grade of 70% or "C" and better.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013<br><br>05/16/2012 - 13 out of 15 students or 87% got a grade of 70% or "C" and better.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| A - instruction - Electronics Technology | | | |

| Course Student Learning Outcomes | Assessment Strategies & Target / Tasks | Results | Improvement & Follow-Up |
|---|---|---|---|
| (AAS) - VEE 222 - Discrete Devices II - SLO2 - Describe UJT oscillator circuit operation. (Created By A - instruction - Electronics Technology (AAS))<br>**CSLO Assessment Cycle:**<br>2012 - 2013 (Spring 2013)<br>2012 - 2013 (Summer 2013)<br>2013 - 2014 (Fall 2013)<br>**CSLO Status:**<br>Inactive | **Assessment Strategy:**<br>Using the NIDA trainer student will experiment on UJT use as oscillator. Written assessment will also be administer.<br>**Assessment Type:**<br>Presentation/Performance<br>**Target:**<br>70% or grade of "C" or better of the student register on this course. | 12/13/2013 - 12 out of 15 or 80% of the students got a grade of 70% or "C" and better.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013<br><br>05/16/2013 - 13 out of 15 or 87% of the students got a grade of 70% or "C" or better.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013<br><br>12/14/2012 - 10 out of 12 students or 83% got a grade of 70% or "C" and better.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013<br><br>05/07/2012 - 13 out of 15 students or 87% got a grade of 70% or "C" and better.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| A - instruction - Electronics Technology (AAS) - VEE 222 - Discrete Devices II - SLO3 - Describe SCR trigger circuit operation. (Created By A - instruction - Electronics Technology (AAS))<br>**CSLO Assessment Cycle:**<br>2012 - 2013 (Spring 2013)<br>2012 - 2013 (Summer 2013)<br>2013 - 2014 (Fall 2013)<br>**CSLO Status:**<br>Inactive | **Assessment Strategy:**<br>Using the NIDA trainer the student will perform an experiment on SCR circuit operation. Written assessment will also be administer.<br>**Assessment Type:**<br>Presentation/Performance<br>**Target:**<br>70% or grade of "C" or better of student register on this course. | 03/11/2014 - 14 out of 15 or 93% got a grade of 70% or grade of C or better.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013<br><br>05/16/2013 - 11 out of 15 or 73% of the students got a grade of 70% or "C" or better.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013<br><br>05/16/2013 - 11 out of 15 students or 73% got a grade of 70% or "C" and better.<br>**Target Met:** | |

| Course Student Learning Outcomes | Assessment Strategies & Target / Tasks | Results | Improvement & Follow-Up |
|---|---|---|---|
| | | Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| | | 12/14/2012 - 12 out of 12 students or 100% got a grade of 70% or "C" and better.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| A - instruction - Electronics Technology (AAS) - VEE 222 - Discrete Devices II - SLO4 - Describe SCR power control operation. (Created By A - instruction - Electronics Technology (AAS))<br>**CSLO Assessment Cycle:**<br>2012 - 2013 (Spring 2013)<br>2012 - 2013 (Summer 2013)<br>2013 - 2014 (Fall 2013)<br>**CSLO Status:**<br>Inactive | **Assessment Strategy:**<br>Using the NIDA trainer the student will perform an experiment on SCR power control operation. Written assessment also be administer.<br>**Assessment Type:**<br>Presentation/Performance<br>**Target:**<br>70% or grade of "C" or better of student register on this course. | 12/14/2013 - 14 out of 15 or 93% got a grade of 70% or "C" or better.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| | | 05/16/2013 - 11 out of 15 or 73% of the students got a grade of 70% or "C" or better.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| | | 05/16/2013 - 11 out of 15 students or 73% got a grade of 70% or "C" and better.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| | | 12/14/2012 - 1 out of 12 students or 93% got a grade of 70% or "C" and better.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| A - instruction - Electronics Technology (AAS) - VEE 222 - Discrete Devices II - SLO5 - Identify the relationship among Triac, SCRs , Diac and four-layered devices. | **Assessment Strategy:**<br>Using the NIDA trainer student will perform experiments on operation and relationship among Triac, SCR, Diac and four layered | 12/13/2013 - 12 out of 15 or 80% got a grade of 70% or "C" or better.<br>**Target Met:**<br>Yes | |

| Course Student Learning Outcomes | Assessment Strategies & Target / Tasks | Results | Improvement & Follow-Up |
|---|---|---|---|
| (Created By A - instruction - Electronics Technology (AAS))<br>**CSLO Assessment Cycle:**<br>2012 - 2013 (Spring 2013)<br>2012 - 2013 (Summer 2013)<br>2013 - 2014 (Fall 2013)<br>**CSLO Status:**<br>Inactive | devices.<br>**Assessment Type:**<br>Presentation/Performance<br>**Target:**<br>70% or grade of "C" or better of student register on this course. | **Reporting Period:**<br>2012 - 2013<br>05/16/2013 - 11 out of 15 or 73% of the students got a grade of 70% or "C" or better.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013<br>05/16/2013 - 10 out of 15 students or 67% got a grade of 70% or "C" and better.<br>**Target Met:**<br>No<br>**Reporting Period:**<br>2012 - 2013<br>12/14/2012 - 10 out of 12 students or 83% got a grade of 70% or "C" and better.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| A - instruction - Electronics Technology (AAS) - VEE 222 - Discrete Devices II - SLO6 - Describe the construction, operation and application of Programmable Unijunction Transistor (PUT). (Created By A - instruction - Electronics Technology (AAS))<br>**CSLO Assessment Cycle:**<br>2012 - 2013 (Spring 2013)<br>2012 - 2013 (Summer 2013)<br>2013 - 2014 (Fall 2013)<br>**CSLO Status:**<br>Inactive | **Assessment Strategy:**<br>Using the NIDA trainer student will perform experiment on the operation and application of PUT. Written assessment will be administer.<br>**Assessment Type:**<br>Presentation/Performance<br>**Target:**<br>70% or grade of "C" or better of student register on this course. | 12/13/2013 - 13 out of 15 or 87% got a grade of 70% or "C" or better.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013<br>05/16/2013 - 12 out of 15 or 80% of the students got a grade of 70% or "C" or better.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013<br>05/16/2013 - 12 out of 15 students or 80% got a grade of 70% or "C" and better.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |

| Course Student Learning Outcomes | Assessment Strategies & Target / Tasks | Results | Improvement & Follow-Up |
|---|---|---|---|
| | | 12/14/2012 - 12 out of 12 students or 100% got a grade of 70% or "C" and better.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| B - instruction - Refrigeration and Air Condition (CA) - VEM 113 - Refrigeration I - CSLO1 - Discuss the fundamentals of refrigeration. (Created By B - instruction - Refrigeration and Air Condition (CA))<br>**CSLO Assessment Cycle:**<br>2013 - 2014 (Fall 2013)<br>**Start Date:**<br>08/19/2013<br>**Inactive Date:**<br>05/20/2014<br>**CSLO Status:**<br>Active | **Assessment Strategy:**<br>The students will define refrigeration, air conditioning and pressure. They will also differentiate sensible and latent heat. Explain precisely the refrigeration cycle.<br>**Assessment Type:**<br>Written Assignment<br>**Target:**<br>70% of all the students registered in this course must get a grade of "C" or better | 12/20/2012 - Out of 14 students registered in this course, there are 12 or 86% students got "C" or better and 2 got "D" or below.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| B - instruction - Refrigeration and Air Condition (CA) - VEM 113 - Refrigeration I - CSLO2 - Perform basic shop practices. (Created By B - instruction - Refrigeration and Air Condition (CA))<br>**CSLO Assessment Cycle:**<br>2013 - 2014 (Fall 2013)<br>**Start Date:**<br>08/19/2013<br>**Inactive Date:**<br>05/20/2014<br>**CSLO Status:**<br>Active | **Assessment Strategy:**<br>Given a refrigeration hand tools and supplies, the student will perform the steps in ACR tube cutting, reaming, flaring, swaging, bending, soldering and brazing.<br>**Assessment Type:**<br>Project-Individual<br>**Target:**<br>70% of all the students registered in this course must get a grade of "C" or better | 12/20/2012 - Out of 14 students registered in this course, there are 12 or 86% students got "C" or better and 2 got "D" or below.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| B - instruction - Refrigeration and Air Condition (CA) - VEM 113 - Refrigeration I - CSLO3 - Determine the different compression refrigeration systems. (Created By B - instruction - Refrigeration and Air Condition (CA)) | **Assessment Strategy:**<br>Given a refrigeration cycle mock-up, the student will explain the operation of a compression system.<br>**Assessment Type:**<br>Presentation/Performance<br>**Target:** | 12/20/2012 - Out of 14 students registered in this course, there are 13 or 98% students got "C" or better and 1 got "D" or below.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |

| Course Student Learning Outcomes | Assessment Strategies & Target / Tasks | Results | Improvement & Follow-Up |
|---|---|---|---|
| **CSLO Assessment Cycle:**<br>2013 - 2014 (Fall 2013)<br>**Start Date:**<br>08/20/2013<br>**Inactive Date:**<br>05/20/2014<br>**CSLO Status:**<br>Active | 70% of all the students registered in this course must get a grade of "C" or better | | |
| B - instruction - Refrigeration and Air Condition (CA) - VEM 113 - Refrigeration I - CSLO4 - Recognize the common refrigerants. (Created By B - instruction - Refrigeration and Air Condition (CA))<br>**CSLO Assessment Cycle:**<br>2013 - 2014 (Fall 2013)<br>**Start Date:**<br>08/19/2013<br>**Inactive Date:**<br>05/20/2014<br>**CSLO Status:**<br>Active | **Assessment Strategy:**<br>Given different kinds of refrigerant, the student will identify the types by using cylinder color code and refrigerant identifier methods.<br>**Assessment Type:**<br>Presentation/Performance<br>**Target:**<br>70% of all the students registered in this course must get a grade of "C" or better | 12/20/2012 - Out of 14 students registered in this course, there are 13 or 98% students got "C" or better and 1 got "D" or below.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| B - instruction - Refrigeration and Air Condition (CA) - VEM 113 - Refrigeration I - CSLO5 - Troubleshoot and repair mechanical defects of domestic refrigeration system. (Created By B - instruction - Refrigeration and Air Condition (CA))<br>**CSLO Assessment Cycle:**<br>2013 - 2014 (Fall 2013)<br>**Start Date:**<br>08/19/2013<br>**Inactive Date:**<br>05/20/2014<br>**CSLO Status:**<br>Active | **Assessment Strategy:**<br>Given a defective refrigerator, room air conditioner, recovery machine, vacuum pump, system analyzer, tools and supplies, the students will trouble shoot and repair the system.<br>**Assessment Type:**<br>Project-Group<br>**Target:**<br>70% of all the students registered in this course must get a grade of "C" or better | 12/12/2012 - Out of 14 students registered in this course, there are 13 or 98% students got "C" or better and 1 got "D" or below.<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| B - instruction - Refrigeration and Air Condition (CA) - VEM 114 - Refrigeration II - CSLO1 - Discuss fundamentals of air conditioning. (Created By B - instruction - Refrigeration and Air Condition (CA)) | **Assessment Strategy:**<br>The students will discuss the principles of air conditioning, list down the classifications and explain the operation of the system.<br>**Assessment Type:**<br>Exam/Quiz - In Course | 05/20/2013 - 10 out of 10 or 100% of students registered in this course got a "C" or better<br>**Target Met:**<br>Yes<br>**Reporting Period:** | |

| Course Student Learning Outcomes | Assessment Strategies & Target / Tasks | Results | Improvement & Follow-Up |
|---|---|---|---|
| **CSLO Assessment Cycle:**<br>2012 - 2013 (Spring 2013)<br>**Start Date:**<br>08/20/2012<br>**Inactive Date:**<br>05/20/2013<br>**CSLO Status:**<br>Active | **Target:**<br>70% of all the students registered in this course must get a grade of "C" or better | 2012 - 2013 | |
| B - instruction - Refrigeration and Air Condition (CA) - VEM 114 - Refrigeration II - CSLO2 - Install split type air conditioning system. (Created By B - instruction - Refrigeration and Air Condition (CA))<br>**CSLO Assessment Cycle:**<br>2012 - 2013 (Spring 2013)<br>**Start Date:**<br>08/20/2012<br>**Inactive Date:**<br>05/20/2013<br>**CSLO Status:**<br>Active | **Assessment Strategy:**<br>Given a split type air conditioning unit, vacuum pump, manifold gauge, tools and supplies, the students will install the unit following the manufacturers installation manual.<br>**Assessment Type:**<br>Project-Group<br>**Target:**<br>70% of all the students registered in this course must get a grade of "C" or better | 05/20/2013 - 10 out of 10 or 100% of students registered in this course got a "C" or better<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | 01/06/2014 - Need to acquire R-410a air conditioning unit for instructional purposes. |
| B - instruction - Refrigeration and Air Condition (CA) - VEM 114 - Refrigeration II - CSLO3 - Perform servicing and maintenance of split type air conditioning system. (Created By B - instruction - Refrigeration and Air Condition (CA))<br>**CSLO Assessment Cycle:**<br>2012 - 2013 (Spring 2013)<br>**Start Date:**<br>08/20/2012<br>**Inactive Date:**<br>05/20/2013<br>**CSLO Status:**<br>Active | **Assessment Strategy:**<br>Given a split type air conditioning unit, tools and supplies, the students will perform the procedures in preventive maintenance of a system.<br>**Assessment Type:**<br>Project-Group<br>**Target:**<br>70% of all the students registered in this course must get a grade of "C" or better | 05/20/2013 - 10 out of 10 or 100% of students registered in this course got a "C" or better<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | |
| B - instruction - Refrigeration and Air Condition (CA) - VEM 114 - Refrigeration II - CSLO4 - Recover and recycle refrigerant in the system. (Created By B - instruction - Refrigeration and Air Condition (CA)) | **Assessment Strategy:**<br>Given a split type air conditioning unit, recovery and recycling machine, the students will demonstrate the procedures in refrigerant recovery and recycling from an old unit. | 05/20/2013 - 10 out of 10 or 100% of students registered in this course got a "C" or better<br>**Target Met:**<br>Yes<br>**Reporting Period:** | |

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| **CSLO Assessment Cycle:**<br>2012 - 2013 (Spring 2013)<br>**Start Date:**<br>08/20/2012<br>**Inactive Date:**<br>05/20/2013<br>**CSLO Status:**<br>Active | **Assessment Type:**<br>Project-Group<br>**Target:**<br>70% of all the students registered in this course must get a grade of "C" or better | 2012 - 2013 | |
| B - instruction - Refrigeration and Air Condition (CA) - VEM 114 - Refrigeration II - CSLO5 - Troubleshoot defects of split type air conditioning system. (Created By B - instruction - Refrigeration and Air Condition (CA))<br>**CSLO Assessment Cycle:**<br>2012 - 2013 (Spring 2013)<br>**Start Date:**<br>08/20/2012<br>**Inactive Date:**<br>05/20/2013<br>**CSLO Status:**<br>Active | **Assessment Strategy:**<br>Given a split type unit, manifold gauge, ammeter and tools, the student will diagnose the system defect and determine the countermeasures.<br>**Assessment Type:**<br>Presentation/Performance<br>**Target:**<br>70% of all the students registered in this course must get a grade of "C" or better | 05/20/2013 - 10 out of 10 or 100% of students registered in this course got a "C" or better<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | 01/06/2014 - Need to purchase R-410a manifold gauges and hand tools for instructional purposes. |
| B - instruction - Refrigeration and Air Condition (CA) - VEM 114 - Refrigeration II - CSLO6 - Repair mechanical and electrical defects of split type air conditioning system.<br>(Created By B - instruction - Refrigeration and Air Condition (CA))<br>**CSLO Assessment Cycle:**<br>2012 - 2013 (Spring 2013)<br>**Start Date:**<br>08/20/2012<br>**Inactive Date:**<br>05/20/2013<br>**CSLO Status:**<br>Active | **Assessment Strategy:**<br>Given a defective split type air conditioning unit, manifold gauge, ammeter and tools, the students will replace defective mechanical and electrical parts of the system.<br>**Assessment Type:**<br>Project-Group<br>**Target:**<br>70% of all the students registered in this course must get a grade of "C" or better | 05/20/2013 - 10 out of 10 or 100% of students registered in this course got a "C" or better<br>**Target Met:**<br>Yes<br>**Reporting Period:**<br>2012 - 2013 | 01/06/2014 - Need to obtain an inverter type air conditioning unit for instructional purposes. |