**Curriculum Enhancement Plans for Fall 2014**

**Program Name:**  \_Industrial Technology \_\_\_\_

**Course Name/Number:** \_IEIR 1310 – Motor Controls \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Course Competency Identified for Enhancement:** Analyze (a) schematics (take apart motors and identify the pieces of each item in the diagrams: pictorials, 1-line diagrams, wiring diagrams); and (b) relay logic functions (line diagrams). \_\_

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| **Methods for Enhancing Teaching and Learning:** |  |
| 1. Equipment already in use | Hands-on: Conceive it, draw it, wire it, test it. |
| 1. Online learning modules or assignments | The challenge is reading a circuit from left to right AND understanding the rules that go with it. Use the CD that comes with the textbook for learning activities and assessments. |
| 1. New interactive learning strategies | Textbook has CD with activities and interactive resources to use.  Instructor puts schematics/diagrams on board and has students discuss it. Suggestion: use transparency paper/colored markers or whiteboard/dry erase markers for student to trace the circuits and components. |
| **Types of ABE/Study Supports:** |  |
| 1. Student-led tutoring | Create after class discussion group opportunities:   * If students can stay after class, offer an after-class group study that is student led. The ABE instructor could help start these off until students are moving forward on their own. * Have students continue discussions using the Discussion Board option on Blackboard |
| 1. Tutoring options | If students score below 75 on a test or other major assignment, the instructor can require the student to complete a specified amount of tutoring time – whether with the primary instructor, the ABE supplemental instructor, or the Access Learning Center. |
| **Inclusion of Soft Skills:** |  |
| 1. Professionalism | Practice East Campus Professional Code of Conduct |
| 1. Critical Thinking Skills | Associating schematics/ line drawings to physical items in the workshop requires critical thinking. |

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**Course Name/Number:** \_ IEIR 1310 – Motor Controls \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Course Competency Identified for Enhancement:** Sketch, construct, operate, and troubleshoot circuit with motor, motor starter, and control devices.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Methods for Enhancing Teaching and Learning:** |  |
| 1. Online learning modules or assignments | Sample sketches can be scanned and saved to Blackboard to make them easy for students to access. |
| 1. New interactive learning strategies | Students do their own sketches. Choose their own components and incorporate them into a diagram. |
| **Types of ABE/Study Supports:** |  |
| 1. Practice math problems to strengthen basic math skills needed | Not much math in Motor Controls, but if students need help, it would be good to have applicable story problems that require the types of math used. For example, electrical laws/formulas continue here (Ohm’s Law). |
| 1. Student-led tutoring | Create after class discussion group opportunities:   * If students can stay after class, offer an after-class group study that is student led. The ABE instructor could help start these off until students are moving forward on their own. * Have students continue discussions using the Discussion Board option on Blackboard |
| 1. Tutoring options | If students score below 75 on a test or other major assignment, the instructor can require the student to complete a specified amount of tutoring time – whether with the primary instructor, the ABE supplemental instructor, or the Access Learning Center. |
| **Inclusion of Soft Skills:** |  |
| 1. Professionalism | Practice East Campus Professional Code of Conduct |
| 1. Critical Thinking Skills | Math story problems.  Associating schematics/ line drawings to physical items in the workshop. |
| 1. Problem Solving Skills | Troubleshooting |
| 1. Communication Skills | Write-ups. For example: communication with the boss, with service tech, with customer. Use the work ticket. Communication with others on work team. |

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**Course Name/Number:** \_ IEIR 1310 – Motor Controls \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Course Competency Identified for Enhancement:** \_Demonstrate proper and safe troubleshooting practices.\_\_\_\_\_\_\_

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| **Methods for Enhancing Teaching and Learning:** |  |
| 1. Equipment already in use | Hands on. When you wire something, does it work? If not, troubleshoot. |
| 1. Online learning modules or assignments | Electronic handouts can be scanned and saved to Blackboard to make them easy for students to access. |
| **Types of ABE/Study Supports:** |  |
| 1. Student-led tutoring | Create after class discussion group opportunities:   * If students can stay after class, offer an after-class group study that is student led. The ABE instructor could help start these off until students are moving forward on their own. * Have students continue discussions using the Discussion Board option on Blackboard |
| 1. Tutoring options | If students score below 75 on a test or other major assignment, the instructor can require the student to complete a specified amount of tutoring time – whether with the primary instructor, the ABE supplemental instructor, or the Access Learning Center. |
| **Inclusion of Soft Skills:** |  |
| 1. Professionalism | Practice East Campus Professional Code of Conduct |
| 1. Critical Thinking Skills | Associating schematics/ line drawings to physical items in the workshop requires critical thinking. |
| 1. Problem Solving Skills | Troubleshooting |