**Curriculum Map for East Central College**

Curriculum Map for:

Industrial Engineering Technology - Certificate of Achievement

Key: **I**ntroduced **R**einforced **A**ssessed

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Courses | IE1103 intro to mfg | IE1112-21 ind power sys | IE1123 ind comp apps | IE1151-52 Ind electricity | IE1163 ind cot sys wiring | IE1171-72 Porcess Cont. | IE2113 maint practices | IE2123 mat. & met | IE2153 motor controls | IE2173 Troubleshooting | IE2213 PLC |
| Program Outcomes |  |  |  |  |  |  |  |  |  |  |  |
| Demonstrate an understanding of OSHA regulations and safe work practices in the classroom/lab | I | A |  | R | A | R | R |  | R |  | R |
| Demonstrate correct procedures and use of electrical/mechanical equipment | I | R |  | A | A | R | R |  |  | R |  |
| Demonstrate an understanding of pneumatic/hydraulic equipment | I | A |  |  |  |  |  |  |  | R |  |
| Demonstrate appropriate oral, written and technical/electronic communication skills | I | R | A | R | R | R | R | R | R | R | R |
| Demonstrate skill using mathematical equations to solve technical problems | I | RA |  | RA | RA | RA | RA |  |  | R | R |
| Demonstrate an understanding of basic electrical theory |  |  |  | IA | RA | RA |  |  |  |  |  |
| Demonstrate the ability to install electrical/mechanical components using schematics and prints |  |  |  | I | RA | RA |  |  |  |  |  |
| Demonstrate a basic understanding of elementary welding |  |  |  |  |  |  |  | I |  |  |  |

Instructions: Add **courses** along horizontal row; add program or student learning **outcomes** in first column; indicate where each outcome is introduced **(I)**, reinforced **(R)**, and assessed **(A)**.