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| **Institution:** | Texas State Technical College Waco | **Award Title:** | Solar Energy Technology AAS Degree |
| **Program:** | Solar Energy | **Award CIP Code:** | 15.0505 |

| **Key Activities to WECM Courses Matrix** | | | | | | | | | | | | |
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| **Key Activity #/Statement** | **WECM Course Rubric, Number and Title** | | | | | | | | | | | |
| SOLR 1371 - Introduction to Renewable Energy-Emphasis Solar | SOLR 1372 - Basic Solar Photo-Voltaic PV Electrical Power Generation | SOLR 1273 - Basic Solar Thermal-Heating Fluids | SOLR 2276- Solar System Equipment and Components | SOLR 2275- Solar Design and Installation Considerations |  |  |  |  |  |  |  |
| 1.1 Consult with customer. |  |  |  |  | X |  |  |  |  |  |  |  |
| 1.2 Determine appropriate equipment locations. |  | X | X |  | X |  |  |  |  |  |  |  |
| 1.3 Create preliminary design of system. |  |  |  | X | X |  |  |  |  |  |  |  |
| 1.4 Develop job specification. |  |  |  | X | X |  |  |  |  |  |  |  |
| 2.1 Calculate system energy output. |  |  |  |  | X |  |  |  |  |  |  |  |
| 2.2 Calculate sizing of balance of system. |  |  |  | X | X |  |  |  |  |  |  |  |
| 2.3 Generate drawings and parts lists. |  | X | X |  | X |  |  |  |  |  |  |  |
| 3.1 Procure components. |  |  |  | X | X |  |  |  |  |  |  |  |
| 3.2 Apply for necessary permits. |  |  |  |  | X |  |  |  |  |  |  |  |
| 3.3 Schedule resources. |  |  |  | X | X |  |  |  |  |  |  |  |
| 3.4 Stage materials. |  |  |  | X | X |  |  |  |  |  |  |  |
| 4.1 Follow safety procedures. | X | X | X | X | X |  |  |  |  |  |  |  |
| 4.2 Install structural components. |  |  |  | X | X |  |  |  |  |  |  |  |
| 4.3. Install plumbing components. |  |  |  | X | X |  |  |  |  |  |  |  |
| 4.4 Install electrical components. |  |  |  | X | X |  |  |  |  |  |  |  |
| 4.5 Commission system. |  |  |  | X | X |  |  |  |  |  |  |  |
| 5.1 Monitor system performance. |  |  |  |  | X |  |  |  |  |  |  |  |
| 5.2 Respond to customer calls. |  |  |  |  | X |  |  |  |  |  |  |  |
| 5.3 Perform scheduled maintenance. |  |  |  |  | X |  |  |  |  |  |  |  |
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