

1111

Technology ☐ DIVISION
☐ NEW COURSE
☐ REVISION

Course Information Form

| MAJOR COURSE SEGMENT | HOURS | LEARNING OUTCOMES |
|-------------------------------------|-------|---|
| | | <i>The student will be able to:</i> |
| Level Circuit | 7 | Complete a level circuit within industry tolerances, and correctly distribute the error across the circuit. |
| Angle and Distance Measurement | 5.5 | Demonstrate the correct procedures to set up and operate the equipment to properly measure angles and distances. |
| Topographic Surveys | 9 | Demonstrate the ability to locate existing structures and contours with a total station and prism pole. |
| Building Layout | 22 | Demonstrate the ability to locate and stake building corners, offsets, interior walls, rough-in plumbing, and other proposed structures. |
| Cut and Fill Calculations & Staking | 15 | Demonstrate the ability to properly calculate cut and fill measurements based on existing and proposed conditions, and set hubs and stakes accordingly. |

| | | |
|------------------------|------|---|
| Pipeline/Sewer Staking | 9 | Demonstrate the ability to locate a pipeline in the field based on a set of construction drawings, and establish proper offsets to allow the contractor to excavate in the correct location and to the correct depth. |
| | 67.5 | |

| COURSE OUTCOMES* | At the successful completion of this course, students will be able to: |
|--|--|
| • Demonstrate the proper use of surveying equipment. | |
| • Calculate cut and fill measurements. | |
| • Document field notes in a legible and understandable manner. | |
| • Locate a proposed structure on-site based on a set of construction drawings. | |

* Course Outcomes will be used in the Assessment Software for Outcomes Assessment. Limit to 3 - 5.