

## Practical Task 1

### Observer details

|                                                   |                                                                                   |
|---------------------------------------------------|-----------------------------------------------------------------------------------|
| Name of observer:                                 | Shawn Jarvis                                                                      |
| Role of observer<br>(Confirm suitability to sign) | Builder.                                                                          |
| Email address of observer                         | Contact @ shawn.jarvis.builder.com.au                                             |
| Signature of observer:                            |  |
| Date:                                             | Select Date. 30-01-24                                                             |

| When completing the task, did the Participant:                                                                                                                                                                                                            | Tick if satisfactorily completed.<br>Provide comments if left unticked. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <b>1 Prepare for and conduct site set-out.</b>                                                                                                                                                                                                            |                                                                         |
| 1.1A. Locate, read and adhere to the current plans and site set-out procedures.                                                                                                                                                                           | <input checked="" type="checkbox"/>                                     |
| 1.1B. Select and operate one surveying and one levelling device in accordance with SOPs (copy of booking sheet required as evidence).                                                                                                                     | <input checked="" type="checkbox"/>                                     |
| 1.1C. Check accuracy of instrument by conducting a 'two peg test'.                                                                                                                                                                                        | <input checked="" type="checkbox"/>                                     |
| 1.1D. Carry out reduction in a closed level run by rise and fall method (copy of booking sheet required as evidence).                                                                                                                                     | <input checked="" type="checkbox"/>                                     |
| 1.1E. Carry out reduction in a closed level run by height of plane collimation (HPC) method (copy of booking sheet required as evidence).                                                                                                                 | <input checked="" type="checkbox"/>                                     |
| 1.1F. Calculate accurate staff readings to enable a specific reduced level (RL) set-out.                                                                                                                                                                  | <input checked="" type="checkbox"/>                                     |
| 1.1G. Identify and explain errors in measured distances due to site characteristics and measurement methods.                                                                                                                                              | <input checked="" type="checkbox"/>                                     |
| 1.1H. Use digital tools to communicate with others.                                                                                                                                                                                                       | <input checked="" type="checkbox"/>                                     |
| 1.1I. Use equipment software to collect information and develop relevant documentation.                                                                                                                                                                   | <input checked="" type="checkbox"/>                                     |
| <b>2 Develop a contour grid.</b>                                                                                                                                                                                                                          |                                                                         |
| 1.2A. Determine set-out grid and levels.                                                                                                                                                                                                                  | <input checked="" type="checkbox"/>                                     |
| 1.2B. Prepare a topographic contour plan from grid levels to specified tolerances and stated contour intervals (copy required as evidence).                                                                                                               | <input checked="" type="checkbox"/>                                     |
| 1.2C. Determine surface area being levelled and calculate cut and fill volumes.                                                                                                                                                                           | <input checked="" type="checkbox"/>                                     |
| 1.2D. Calculate and record trigonometric and geometric calculations commonly used with grid lines, off sets and right-angle triangles without error (copy of calculations required as evidence).                                                          | <input checked="" type="checkbox"/>                                     |
| 1.2E. Calculate cut and fill quantities including: (copy of calculations required as evidence). <ul style="list-style-type: none"> <li>area and volume of land to be levelled.</li> <li>area of land to be filled and volume of fill required.</li> </ul> | <input checked="" type="checkbox"/>                                     |
| <b>3 Determine grades and levels.</b>                                                                                                                                                                                                                     |                                                                         |
| 1.3A. Draw longitudinal sections from RLs.                                                                                                                                                                                                                | <input checked="" type="checkbox"/>                                     |
| 1.3B. Determine levels and clearances from given grades and distances to specified tolerances.                                                                                                                                                            | <input checked="" type="checkbox"/>                                     |