# Unit 112: Construction operations and civil engineering operations

# Worksheet 14: Drainage – laying the drain (tutor)

**Task 1:** **Preparation**

Research the correct method of drainage activities and number from 1 to 5 the correct sequence of operations.

|  |  |
| --- | --- |
| Drainage activity | Number the sequence of activities |
| Check that the correct size and type of pipe is available and inspect for defects, i.e. chips, cracks, damage to joints, etc. Reject where necessary. | 3 |
| Lower larger pipes onto bedding material using a sling. | 5 |
| Place pipes ready for laying alongside the trench at 45° to the edge. | 4 |
| Check from established levels that the correct thickness of bedding can be laid. If not, the trench bottom must be trimmed. | 1 |
| Place bedding material in trench and spread to correct level. | 2 |

**Task 2**: **Laying pipes and back filling**

Research the correct method of drainage activities and number from 1 to 5 the correct sequence of operations.

|  |  |
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| Drainage activity | Number the sequence of activities |
| This backfill should be carefully compacted, to avoid disturbance of the pipes, and to a depth of 300mm above the barrel of the pipes. | 4 |
| If turf was removed prior to excavating, then relay on a bed of about 100mm of topsoil which is only lightly compacted. | 5 |
| Clean pipe ends and lay the pipe to line and level working uphill. If spigot and socket pipes are being used, they should be laid with the socket uphill. | 1 |
| Check that the highest point of the pipe is  1–3 mm below the line. Continue and lay subsequent pipes and form joints. | 2 |
| Check the complete pipeline for line and level and, if used, remove line and pins.  Supervisor to give permission prior to backfilling. | 3 |