204: Installation of wiring systems and enclosures  
**Worksheet 3-010: Straight steel conduit**

**NB**: Students must not attempt this exercise before the correct use of all tools and materials has been demonstrated.

**Technical data**

* All damaged and marked surfaces must be restored to a sound condition on completion.
* In order to carry out this exercise, specialist tools are required.
* Conduit threads must be reamed before removing the dies and all swarf needs to be removed from inside the conduit to prevent cable damage.
* You are to make sure that all your work conforms to the requirements of the Health and Safety at Work Act.

**Material required**

|  |  |
| --- | --- |
| 1 off | Heavy gauge black enamelled steel conduit 20mm diameter x 300mm long. |

**Procedure**

1. Enter the start time on the assessment sheet.
2. Prepare the material requisition.
3. **Have the requisition checked before proceeding.**
4. Obtain the material from the stores
5. Check the overall length and cut to the required size if necessary.
6. Position the conduit in a pipe vice and, using conduit stocks and dies, thread the end to the required length.
7. Turn the conduit through 180°, replace in the pipe vice and repeat the threading procedure on the other end.
8. **Hand the work to the Lecturer for marking and assessment.**
9. Enter the finish time on the assessment sheet.

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| Exercise 03-010 Straight Steel Conduit.png |

Assessments are based on **observed** safety procedures, and the **quality** and **accuracy** of the completed exercise.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | **YES** | **NO** |
| **1.** | Material requisition correct first time | | **□** | **□** |
| **2.** | Method statement completed | | **□** | **□** |
| Assessed by: ………....………….. | | |  | |
| **3.** | Used only the given length of conduit | | **□** | **□** |
| **4.** | Overall length dimension correct (± 2mm) | | **□** | **□** |
| **5.** | Conduit ends cut square | | **□** | **□** |
| **6.** | Ends threaded square and correct length (± 2mm) | | **□** | **□** |
| **7.** | Burrs, sharp edges and vice marks removed | | **□** | **□** |
| **8.** | Work area conformed to the Health & Safety at Work Act | | **□** | **□** |
| **9.** | Correct safety procedures observed at all times | | **□** | **□** |
| **10.** | Overall appearance to a commercially acceptable standard | | **□** | **□** |
| Assessed by: ………....………….. | | |  | |
| Start Date & Time: ………………........………….. | | Finish Date & Time: ……...…...........…………… | | |
| Target Time: 1 hour | | Time Taken: …………………….........…………… | | |