

## Worksheet 3-010: Straight steel conduit

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

### Technical data

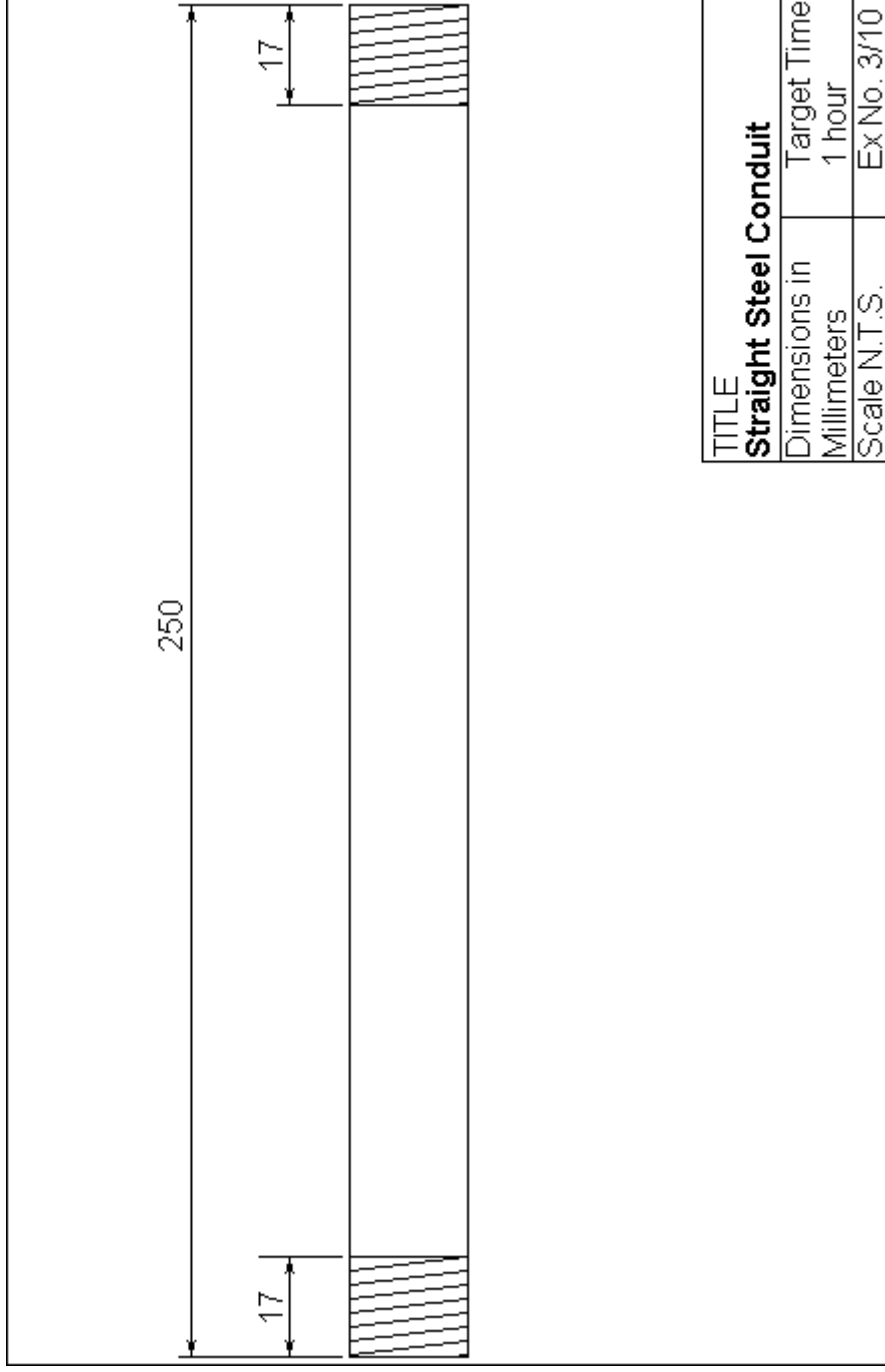
- All damaged and marked surfaces must be restored to a sound condition on completion.
- In order to carry out this exercise, specialist tools are required.
- Conduit threads must be reamed before removing the dies and all swarf needs to be removed from inside the conduit to prevent cable damage.
- You 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.



TITLE

**Straight Steel Conduit**

Dimensions in Millimeters	Target Time 1 hour
Scale N.T.S.	Ex No. 3/10

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

		<b>YES</b>	<b>NO</b>
1.	Material requisition correct first time	<input type="checkbox"/>	<input type="checkbox"/>
2.	Method statement completed	<input type="checkbox"/>	<input type="checkbox"/>
	Assessed by: .....		
3.	Used only the given length of conduit	<input type="checkbox"/>	<input type="checkbox"/>
4.	Overall length dimension correct ( $\pm 2\text{mm}$ )	<input type="checkbox"/>	<input type="checkbox"/>
5.	Conduit ends cut square	<input type="checkbox"/>	<input type="checkbox"/>
6.	Ends threaded square and correct length ( $\pm 2\text{mm}$ )	<input type="checkbox"/>	<input type="checkbox"/>
7.	Burrs, sharp edges and vice marks removed	<input type="checkbox"/>	<input type="checkbox"/>
8.	Work area conformed to the Health & Safety at Work Act	<input type="checkbox"/>	<input type="checkbox"/>
9.	Correct safety procedures observed at all times	<input type="checkbox"/>	<input type="checkbox"/>
10.	Overall appearance to a commercially acceptable standard	<input type="checkbox"/>	<input type="checkbox"/>

Assessed by: .....

Start Date & Time: ..... Finish Date & Time: .....

Target Time: 1 hour Time Taken: .....

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