204: Installation of wiring systems and enclosures  
**Worksheet 4-060: Forming a camel set in cable tray**

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

**Technical data**

* You are to make sure that your work area is clear and safe for work to proceed.
* You are to make sure that all your work conforms to the requirements of the Health and Safety at Work Act.
* Ensure that the cable tray is not cut across the slots.
* Ensure that all edges are deburred.
* Use only pencil to mark dimensions on the cable tray.
* The work area must be restored to a satisfactory condition on completion.

**Material required**

|  |  |
| --- | --- |
| 600mm | Metal cable tray 100mm wide |

**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 stated from the stores.
5. Mark a line across the tray at an equal distance from each end (centre line) and then mark lines 50mm either side of this centre line, as shown in the diagram.
6. Place the cable tray in the bending machine and bend the tray to an angle of approximately 45° starting at each of the 50mm marks.
7. Using a straight edge and rule, mark the set distance of 50mm.
8. Place the cable tray back in the bending machine and bend both sides so that they are both parallel to the centre section and to each other.
9. Cut the tray to the required length and check all dimensions.
10. Mark, cut and form a 50mm slot in one flange, as shown on the diagram and during the demonstration.
11. Remove any burrs and sharp edges and recheck dimensions.
12. **Hand the work to the Lecturer for assessment.**
13. Enter the finish time on the assessment sheet.
14. Restore the work area to a satisfactory condition.

|  |
| --- |
| Task 04-060 Cable Tray Camel Set.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.** | Wore appropriate PPE | | **□** | **□** |
| **4.** | Acquired the correct materials and equipment | | **□** | **□** |
| **5.** | Both ends of cable tray straight and square | | **□** | **□** |
| **6.** | Overall length correct | | **□** | **□** |
| **7.** | Set located in the centre of the tray length | | **□** | **□** |
| **8.** | Used only the given length of cable tray | | **□** | **□** |
| **9.** | Used wood blocks/other suitable tray protection | | **□** | **□** |
| **10.** | Set correct height | | **□** | **□** |
| **11.** | Set correct length | | **□** | **□** |
| **12.** | Slots on tray ends intact, straight and square | | **□** | **□** |
| **13.** | Burrs, sharp edges and any vice marks removed | | **□** | **□** |
| **14.** | Overall appearance to a commercially acceptable standard | | **□** | **□** |
| **15.** | Work area conformed to requirements of HASAWA | | **□** | **□** |
| **16.** | Correct safety procedures observed at all times | | **□** | **□** |
| **17.** | Work area restored to a satisfactory condition on completion | | **□** | **□** |
| Assessed by: ………....………….. | | |  | |
| Start Date & Time: ………………........………….. | | Finish Date & Time: ……...…...........…………… | | |
| Target Time: 1.5 hours | | Time Taken: …………………….........…………… | | |