204: Installation of wiring systems and enclosures  
**Worksheet 2-070: Tongue and groove floorboard**

**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 all your work conforms to the requirements of the Health and Safety at Work Act.
* In order to prevent the floorboards splitting, nail points should be tapped with a hammer to form a blunt end.

**Material required**

|  |  |
| --- | --- |
| 4 off | Countersunk steel woodscrews 1¼ x 8 **OR** |
| 8 off | 40mm oval lost head nails (see note at foot of exercise) |

**Procedure**

**Lifting the floorboard**

1. Enter the start time on the assessment sheet.
2. From the drawing and site inspection prepare a material requisition.
3. **Have the requisition checked before proceeding.**
4. Obtain the material from the stores.
5. Place a chalk mark on the floorboard to indicate which section the Lecturer has indicated should be lifted (see diagram 1).
6. Saw through the tongues on both sides of this floorboard section, ensuring that the tongues on both sides are completely removed for a distance of one joist width in both directions beyond the required marked section.
7. The nails found in both ends of the section should then be driven through the floorboard using a nail punch.
8. Carefully prise up the floorboard until it is possible to place a length of rod under the partly raised section (diagrams 2 and 3).
9. Slide the rod along to support the board near the end of the section.
10. Saw through the floorboard squarely along the centre line of the supporting joist (see diagram 4).
11. Reposition the rod in order to again support the section at the other end and again saw through the floorboard squarely along the centre line of the joist.
12. The required section can now be removed (see diagram 6).
13. Remove the nails from both joists.
14. **Have this work checked by the Lecturer before proceeding.**

**Floorboard replacement**

1. Ensure that the section is replaced in its original position.
2. Carefully fix down this section and adjoining floorboard using the correct fixings (see diagram 5 and the note at the foot of this sheet).
3. **Notify the Lecturer that the work is ready for assessment.**
4. Enter the finish time on the assessment sheet.

**NOTE**: Care must be taken when the floorboard is prised up to ensure that it does not crack or split.

When there is no requirement for service access to a void, the floorboard may be nailed down; otherwise, it must be screwed.

|  |
| --- |
| Exercise 02-070 Tongue & Grooved Floorboard.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.** | Correct section lifted | | **□** | **□** |
| **4.** | Tongues correctly sawn (both sides) | | **□** | **□** |
| **5.** | Flooring each side undamaged | | **□** | **□** |
| **6.** | Flooring cut square | | **□** | **□** |
| **7.** | Joists undamaged | | **□** | **□** |
| Assessed by: ………....………….. | | |  | |
| **8.** | Flooring replaced in correct position | | **□** | **□** |
| **9.** | Flooring replaced securely | | **□** | **□** |
| **10.** | Fixings in correct position | | **□** | **□** |
| **11.** | Overall appearance to a commercially acceptable standard | | **□** | **□** |
| **12.** | Work area conformed to requirements of HASAWA | | **□** | **□** |
| **13.** | Correct safety procedures observed at all times | | **□** | **□** |
| Assessed by: ………....………….. | | |  | |
| Start Date & Time: ………………........………….. | | Finish Date & Time: ……...…...........…………… | | |
| Target Time: 2 hours | | Time Taken: …………………….........…………… | | |