Unit 108: Wood occupations

# Worksheet 25: First fix (tutor)

1. List the hand tools required for the following first fix activities:

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| **Activity:** | **Hand and power tools required:** |
| Hand cut double roof | Steel framing square; cassette tape measure; marking gauge; combination square; sliding bevel; hand saw; claw hammer; spirit level; chalk line; chop saw; drill driver; framing nail gun. |
| Internal door linings | Cassette tape measure; spirit level; straight edge; tenon saw; firmer chisels; claw hammer; drill driver; chop saw. |
| Laying floorboards | Hand saw; claw hammer; nail punch; firmer chisels; floorboard cramp; chop saw; nailer. |

1. In addition to the activities listed above, list three further first fix activities:

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| **First fix activities:** |
| Fixing a staircase |
| Partitions |
| External window/door frames |

1. State **four** common hazards encountered while undertaking first fix activities:

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| **Hazard:** |
| Musculoskeletal injuries caused by incorrect handling |
| Slips, trips and falls undertaking work activities |
| Lacerations caused by unsafe working procedures when using sharp-edged tools |
| Moving site traffic and mobile plant |

1. Answer the following questions:

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| **Question:** | **Answer:** |
| 1. At what joist centres are joists set out at and why? | Commonly set out at 400mm centres to accommodate standard sheets of plasterboard |
| 1. Why are 110v power supplies recommended on building sites? | HSE strongly advises that 110v tools are preferable given the wet, dirty and dusty nature of construction sites and the possibility of mechanical damage to cables and tools.  Any potential electrical shock received would not be sufficient enough to cause a fatality. |
| 1. What is the length of a common rafter on its setting out line, where the rise is 3000mm and the span is 8000mm? | Span ÷ 2 = Run.  Run = 4000mm  The hypotenuse length of the rafter is = to  run2 + rise2  40002 + 30002 = 5000mm |
| 1. What is the purpose of reporting and entering an accident that did not happen in a near miss book? | The accident book has to be reviewed regularly by the employer. In formation on near misses can result in common themes coming to light and provides the opportunity for changing working practices to make them safer. |
| 1. What is the minimum headroom required above a staircase? | 2000mm to the bulkhead/underside of flight above. |
| 1. Where are saddle boards found in a roof? | A saddle board is fixed to the face of the last pair of common rafters at a hipped end. It provides a increased bearing surface for the crown and hip rafter intersection. |