

FACT SHEET

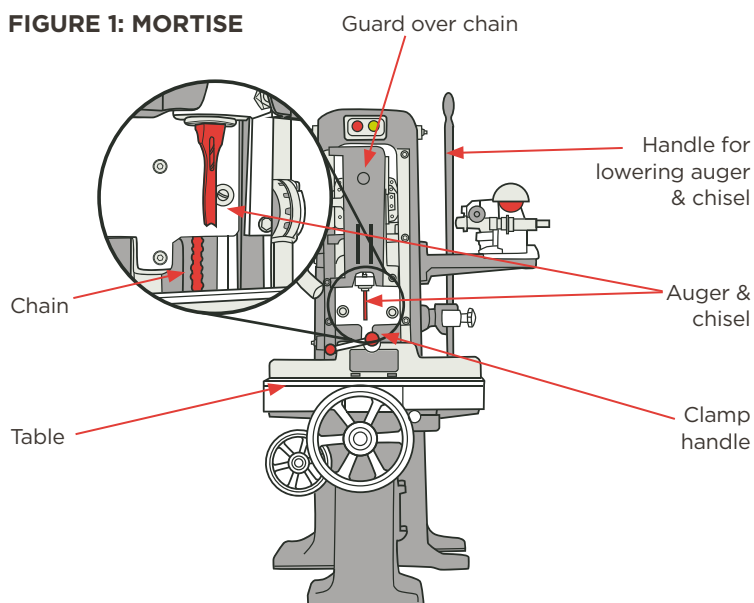
MORTISERS

A mortise is a hole cut in timber to receive a tenon and make a joint. This factsheet focuses on floor-mounted and bench-mounted machines found in factories, specifically on the safety of mortisers used to make rectangular holes.

A mortiser has a hollow square-sided chisel with an auger bit inside. The auger cuts a

round hole through timber, closely followed by the hollow square-sided chisel, which squares the edges of the hole. One penetration makes a square hole, and repeated penetrations make a rectangular hole. An alternative for rectangular mortises is to use a toothed chain, similar to that from a chain saw.

FIGURE 1: MORTISE



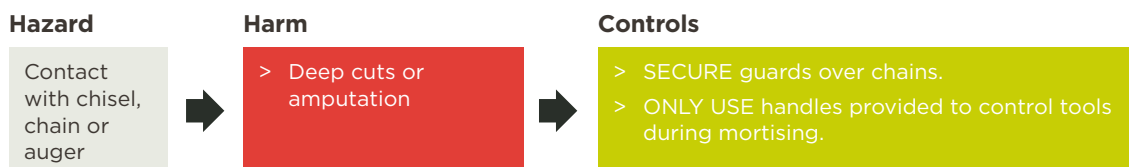
HAZARDS:

- > Contact with chisel, chain or auger
- > Impact or contact from moving timber
- > Noise
- > Dust
- > Slips, trips & falls
- > Contact, impact or entanglement from unexpected movement (during maintenance, cleaning & repairs)

PPE:



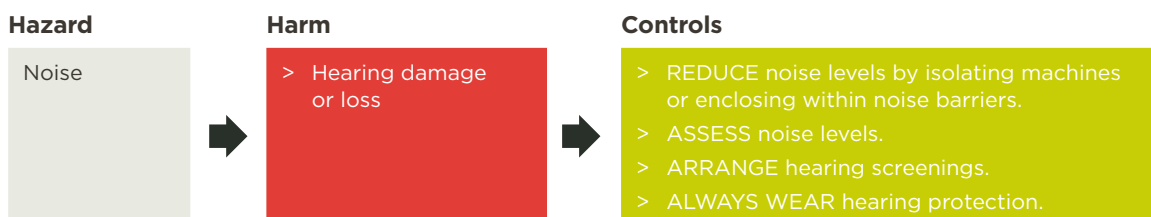
TASK - PRESENT TIMBER TO MACHINE



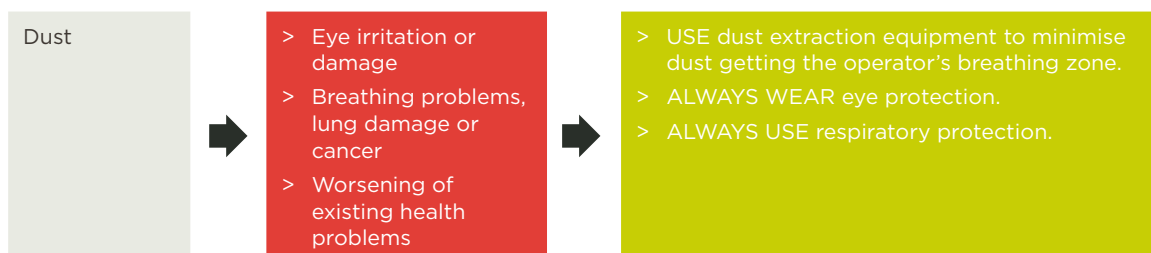
TASK – MAKE THE CUT



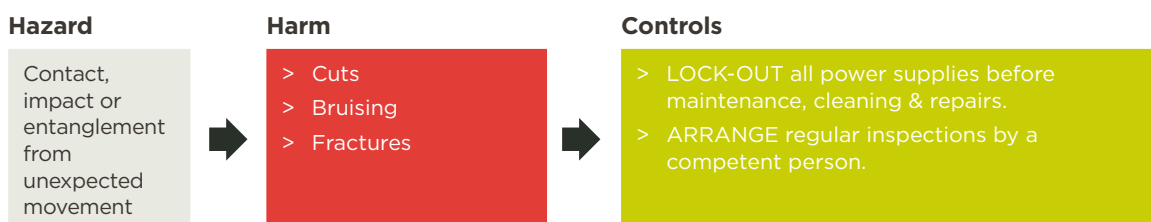
OTHER (NON-MECHANICAL) HAZARDS



A safe noise level over an eight hour day is 85dB(A). A mortiser may exceed this noise intensity.



TASK – MAINTENANCE, CLEANING & REPAIRS



References, current standards and further information can be found on the Safe Use of Machinery project page at: www.worksafe.govt.nz

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