

HAND AND POWER TOOLS AND OTHER CONSTRUCTION PLANT

Facilitator Guide



Timings	Facilitator Notes	Resources
45 mins	Discuss assessment criteria and learning outcomes	Slide 1 Slide 2
	DISCUSS <i>Refer Student Notes - Hand and Power Tools Introduction</i> <i>Refer Student Notes - Hand Tools</i>	Slide 3 Slide 4
	DISCUSS <i>Refer Student Notes - Power Tools</i>	Slide 5 Slide 6
	DISCUSS <i>Refer Student Notes - Guards</i> <i>Refer Student Notes - Operating controls and switches</i>	Slide 7
	DISCUSS <i>Refer Student Notes - Electric Tools</i> <i>- Portable abrasive wheel tools</i> <i>- Pneumatic Tools</i> <i>- Liquid fuel tools</i> <i>- Hydraulic power tools</i>	Slide 8 Slide 9 Slide 10 Slide 11 Slide 12 Slide 13
	DISCUSS <i>Refer Student Notes - Power-Actuated Tools (Explosive Power Tools)</i> Discuss explosive power tools and the following: • safety precautions • using the following tool on a power-actuated tool • fasteners and chargers • firing through existing holes • working environment • misfiring • unsuitable materials • Inspection	Slide 14
	DISCUSS <i>Refer Student Notes - Compressed Air Nailing Tools</i>	Slide 15
	DISCUSS <i>Refer Student Notes - Masonry and Concrete Cutting</i> Discuss Masonry and concrete cutting and the following: • background • planning the job • the type and condition of concrete • the operators posture	Slide 16

	• the form of power used to operate the equipment • the protection of other workers and the public • selecting the equipment • training the operator • setting up • maintenance • preventative measures • specific hazards • health monitoring	
	ACTIVITY Have participants complete the STUDENT QUESTIONS.	

STUDENT QUESTIONS – HAND & POWER TOOLS

1. List four commonly used power tools on construction sites:

NOTE: this list is not exhaustive.

- Drills
- Angle grinders/abrasive wheel cutter
- Circular saw
- Drop saw
- Nail gun
- Multi-cutter
- Jigsaw
- Agitator
- Router

2. List four hazards associated with the use of an angle grinder:

- Serious injuries from attachments (abrasive discs, cutting discs etc) that break and become projectiles
- Lacerations from angle grinder kickback
- Dust from the workpiece being cut or grounded
- Excessive noise
- Flying debris from the workpiece being cut
- Using an attachment not suitable for the angle grinder being used
- Using an attachment not suitable for the task
- The speed rating of the attachment is lower than the maximum speed of the angle grinder
- Attachment used is excessively worn or damaged
- Angle grinder used in a wet environment
- Workpiece is not supported or secured and moves around

3. List four types of personal protective equipment (PPE) that can be worn to manage some of the hazards associated with using power tools commonly found on construction sites.

- Hearing protection – ear muffs, ear plugs
- Hard hat
- Respiratory protective equipment – face mask, respirator
- Safety glasses
- Gloves
- Safety boots
- Clothing – high visibility vests, coveralls

Version	Date	Author
1	30/06/2018	WHSQ