

# The Edge Portable Power Tool Induction: Angle Grinder

## ACTIVITY 1: Key safety tips for safe working with portable power tools

Draw a line to match the safety tip with an explanation

Wear the correct PPE

(safety glasses, ear muffs, dust mask, footwear)

Avoid tangle hazards

Present yourself with safety in mind

(remove rings and jewellery, tie back loose clothes, long hair and beards)

Slips, falls and distractions cause accidents

Check the tool is in good condition

(reject frayed leads and damaged plugs, avoid blunt or broken tooling)

It's there for your protection

Prepare a tidy and safe work area

(remove loose material and debris, ensure stable footing)

Shocks and shatters come from faulty equipment

## ACTIVITY 2: Key safety checks for using an angle grinder

Draw a line to match the checkpoint with what to look for

Completing the job

Check safety guards and grinding disc are in place, undamaged and securely fitted.

Make sure any power leads do not make a trip hazard, and the workspace is clear.

Consider sparks – erect screens and wear an apron if necessary. Avoid flammables.

During the job

Check material for flaws and anything that could damage the grinding wheel.

Clamp the job securely at a convenient height.

Before connecting to power

Ensure work area is clear of other users.

Hold the drill firmly with both hands, keeping fingers clear of the disc.

Allow the disc to come to speed before applying to the work, and apply load gradually.

Starting the job

Beware of sparks, and hold the grinder so sparks fly away from you.

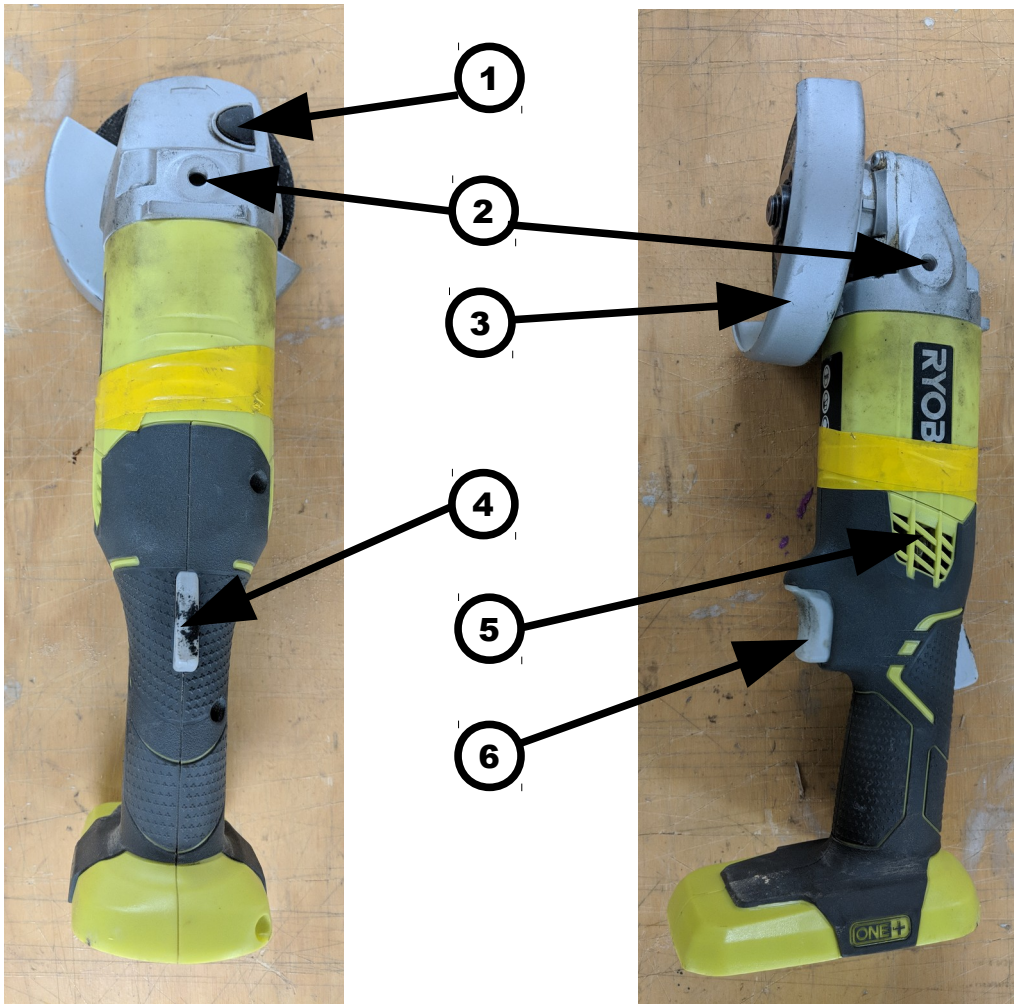
Do not leave the grinder running when unheld.

Prepare the material

Remove from the job before turning off. Avoid touching newly finished job, which will be hot.

### ACTIVITY 3: Identify the important components of an angle grinder

Choose the correct name from the list to identify the key parts numbered in the picture.



- Trigger (on/off)
- Trigger Lock (stays on)
- Spindle Lock (for changing discs)
- Cooling Vent (must not be covered)
- Auxiliary Handle attachment point
- Safety Guard

#### Activity 4: Demonstrating safe use of an angle grinder

- Ensure correct PPE is being worn, and the tool is safe to use.
  - Check the disc is undamaged and securely fitted before starting.
  - Prepare the workspace and clamp the job in place
  - Use the grinder to smooth the workpiece, ensuring sparks are directed safely.
  - Remove from the job, and allow the grinder to stop before setting down.
  - Tidy up
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#### Facilitator Observation:

I confirm that the observations made of the participant and active participation in this induction workshop demonstrated a satisfactory understanding, including competent and safe use of an angle grinder.

Signature: \_\_\_\_\_ Date \_\_\_\_\_

#### Participant Declaration

I declare the assessment above was my own individual work.

Signature: \_\_\_\_\_ Date \_\_\_\_\_