



3055 BA SANGAM COLLEGE

PH: 6674003/9264117 E-mail: basangam@connect.com.fj



WORKSHEET NO: 27

LESSON NOTES:

Subject: Applied Technology	Year/Level: 11
Topic: GRINDING MACHINE	Revision 23/11/21

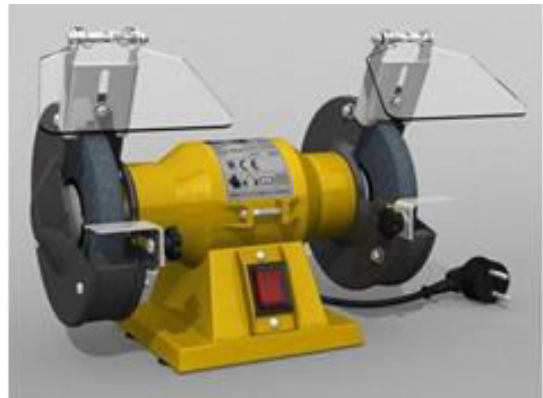
LESSON NOTES:

Grinders:

- A grinding machine, often shortened to grinder, is any of various power tools or machine tools used for grinding, which is a type of machining using an abrasive wheel as the cutting tool.
- Each grain of abrasive on the wheel's surface cuts a small chip from the work piece via shear deformation.

Angle Grinder:

- An angle grinder, also known as a side grinder or disc grinder, is a handheld power tool used for cutting, grinding and polishing.
- Angle grinders typically have an adjustable guard and a side-handle for two-handed operation.
- There are many different kinds of discs that are used for various materials and tasks, such as cut-off discs (diamond blade), abrasive grinding discs, grinding stones, sanding discs, wire brush wheels and polishing pads.



Safety:

- Angle grinders are widely used in metalworking and construction, as well as in emergency rescues.
- They are commonly found in workshops, service garages and auto body repair shops angle grinders produce sparks when cutting ferrous metals.
- They also produce shards cutting other materials. The blades themselves may also break. This is a great hazard to the face and eyes especially, as well as other parts of the body, and as such, a full face shield must be worn and other protective clothing.
- Angle Grinders should never be used without their guard or handle attached; they are there as a necessary precaution for safety.
- All work should be securely clamped or held firmly in a vice.

STUDENTS ACTIVITY:

1. Explain the process that this machine is used for.

2. Name another portable power tool that plays the same role as grinder does.

3. Why do we use face shield when grinding?

Reference:

Year 11 Applied Technology Textbook, MEHA.