Miter Saw

Purpose
The miter saw is a powerful woodworking tool used to cut long pieces of timber and lumber. Unlike the table saw, it can cut cross-grain. It can also be adjusted to cut at angles up to 45°.

Safety
- Don’t cut short pieces that require your hands to be within 8” of the blade
- Clamp any piece being cut
- Ensure that blade guard and fence are in place
- Machine will only turn on when both triggers are engaged

Physical Limitations
- As long as the piece can fit comfortably on the table (~ 7 ft.) and can be properly clamped, the piece can be cut.

Startup and Running Procedure
1. Open the vent behind the miter saw
2. Unlock the blade from the lowered position by pulling and turning the lock located on the right side of the saw
3. The blade can be activated by pressing the trigger interlock button and pulling the trigger on the handle
4. If desired, adjust the angle of the cut by loosening the grip. While holding the lock lever, turn the whole base until the pointer arrow aligns with the desired angle. Release the lock lever and tighten the grip
5. Place the workpiece onto the tool bench, pushed flat against the back fence. Without powering the tool, lower the blade and adjust the piece until the blade is aligned with the desired cut location.
6. Secure the workpiece by using the clamp attached to the miter saw. Additional clamps may be used but ensure that they do not block the lowering of the blade
7. Once positioned and clamped, activate the saw blade. Allow the blade to spin up to maximum speed before lowering it. When cutting, use a smooth motion, making sure not to apply too much pressure to the blade. Keep hands away from the cutting area

Shutdown Procedure
1. Once cut all the way through the material, return the blade to the upright position.
2. Unclamp material and, once finished, lock the saw in the lowered position

Tool Usages
- A miter cut is made at an angle other than 90°, with a vertical blade
- A bevel cut is made with a tilted blade

Materials
Allowed: Woods(hard, soft, and composite)
Banned: Metal, PVC, Carbon Fiber and composites

Video Link
https://www.youtube.com/watch?v=jNqWn34yZ-A