

Triple Tree Aerodrome Safety Guidelines



Metal Fabrication

Grinders

- When using Angle Grinders, you must wear a regulation face shield that covers the face completely. Ear protection is also a must.
- Grinders must have the side shield in the correct orientation. Grinder disks/stones must be rated for the grinders specified RPM ratings which are displayed on the side of the tool. (Figure1)
- Grinding sparks should always be aimed away from people, gas cylinders, and equipment.

Welding

- When welding, proper PPE should be used in the correct fashion. Helmets must be set to the correct darkness. Safety glasses should be worn under the welding helmet.
- Before welding you should scan your surroundings for anything that would ignite from the throwing of the welding sparks. You should also have a fire watch if welding indoors.
- Always have a fire extinguisher within reach of your project (Figure2)
- Always make sure bottle chain is tightly secured around gas bottle before moving the welding machine (Figure3)

Gas Torch

- When opening Oxy-acetylene Torch, you should make sure to open the valves slowly and clear the area of any flammable glasses before ignition. All sparks should be projected down and closed toe shoes should always be worn.
- No more than 15CFM of acetylene should be used because after that the gas becomes unstable.
- All gas bottles should be stored with chains around them. Caps should always be on valve tops. Bottles should never be stored near doorways and near ignition sources. (Figure4)

Figure 1



Figure 2



Figure 3



Figure 4



Chop Saws

- All chop saws should be placed on a flat level surface and should never be placed on a table with wheels.
- Safety glasses should always be worn when using the saw.
- Let the chop saws blade spin up to top speed before slowly plunging the blade into your work piece.
- When using a chop saw with sliders make sure you always slide from the front to the back of the saw.
- If a kickback is to happen while using the saw, immediately let the trigger off and step away in case of flying shrapnel.

Table Saw

- When using a table saw, safety glasses should be worn at all times.
- Never push wood through without a push stick to help guide the wood alongside the blade. (figure 6)
- Never put the table saw blade up too far, as the blade becomes dangerous at too high of a cut, and never have the blade lower than the thickness of your wood. (figure 5)

Drill press

- like all other tools, safety glasses should be worn at all times while using the drill press.
- If you have long hair, it should be tied back and kept secure behind your head.
- When drilling into something small you should never hold it in your hand. Always clamp your piece into a vice before drilling. (figure 7)
- Never leave the chuck key in the drill cruck. Chuck key can be thrown out at high speeds. (figure 8)

Figure 5



Figure 6

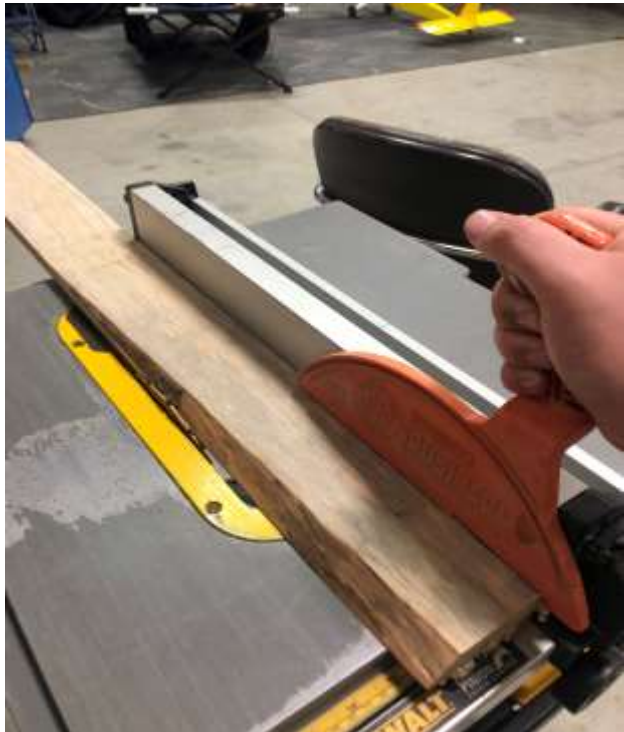


Figure 7



Figure 8



Milling Tools

Mill/Lathe

- You should always wear your safety glasses while operating the mill. Never operate the mill with any grooves or loose clothes around your wrist.
- Never leave the chuck key in the chuck. Chuck key can be launched out at high speeds towards your head.
- Always keep your work pieces securely in a vice or in the chuck while working on it.
- Never reach your hands anywhere near the moving parts of the machine before it comes to a complete stop.

Bench Grinders

- Must wear safety glasses while using the grinder.
- Grinder must spool up completely before grinding the desired material. Same when spooling down the grinder. Always wait for the wheel to completely spool down before leaving.
- Never leave grinder unattended while using it. If you need to walk away; turn your grinding wheel off.

Outdoor Equipment

Ride-on Lawn Mowers

- Proper PPE should be worn while riding and using the mower, (Ear protection, dust mask, and safety glasses)
- Never step off the mower while the blades are engaged. Always shut the power off before stepping off.
- Never reach your hand near the blades of the mower unless the mower has completely been shut off and the key is out of ignition.
- When mowing around loose rocks, be aware of your surroundings. Make sure you are not propelling debris at people.
- When shutting down the mower, slowly bring the throttle down to allow time for the engine, and turbo to cool.
- Mowers should always have a fire extinguisher on board in case of a fire.

Skid Steers

- Proper PPE should also be used on the skid steers (safety glasses, dust mask, and ear protection,)
- Never drive skid steer too close to slipper land where vehicles can slip into water. Also, have an escape plan to get out of the unit in an emergency.
- Never overload the ground of the skid steer if it cannot take the weight that you are planning to lift. This could cause the skid steer to flip.
- When shutting down the skid steer, slowly bring the throttle down to allow time for the engine, and turbo to cool.
- If you spot a hydraulic leak, immediately shut down the skid steer. A bad hydraulic leak on a hot surface can lead to a fire.

Tractors

- Proper PPE should also be worn while using the tractor equipment, (safety glasses, hearing protection, and dust mask).
- When hooking up tools on tractors, you should always do so on a flat level surface to prevent roll back. Tractor should also be shut off while hooking up the tool behind the tractor.
- Tractors should be left in their park gears while being parked and unattended.

Building Safety

- Doorways and exits should never be blocked and should always be accessible. They will be outlined with safety tape.
- Fire extinguishers should be found at multiple locations in the building and workshop. Fire extinguishers should be checked regularly and be up to code specific fires types.
- When buildings are not in use they should be locked up with their lights and climate control units turned off.
- When doing some kind of cutting or gas producing process you should have a door to vent gasses outside. Especially gases that could be harmful if exposed to for a long time.



Mandatory *

Recommended ^

Equipment	Safety Glasses	Ear Protection	Dust Respirators	Gloves	Welding/ Face mask		
Grinders	*	*	^	*	*		
Torches/ Welder	*			*	*		
Chop Saw	*	^	^				
Drill Press	*						
Table Saw	*	^	^				
Mill/lathe	*						
Bench Grinder	*	^	^				
Lawn Mower	*	*	*				
Skid Steer	*	*	*				
Tractors	*	*	*				