



Metal Shop

Shop Basics

Rev. Jan'22

Shop Safety

Shop safety is everyone's responsibility. Be alert and attentive of your surroundings at all times. Under no circumstances should anyone be working in the shop "under the influence".

Dress for the occasion

Closed-toe shoes, short sleeves, work clothes, whatever you don't mind getting oily / metal-covered, etc.

Lions and tigers and bare arms, oh my!

Arms from the elbow down **must** be bare. This includes bracelets, watches, rings, etc. Dangling earrings, necklaces, long hair, baggy clothes, etc. must be constrained.

PPE

Standard and over-glasses eye protection, ear protection, as well as hand sanitizer, are provided. If you have special needs, please bring your own PPE.



Covid Safety

Please be aware of all current Ace and local policies pertaining to Covid. Failure to comply will result in a range of consequences from a simple reminder to termination of membership.

Common Shop Processes

Additive

Additive process combine several pieces of metal with mechanical connections, like bolts, or through heat by welding or soldering. Welding heats the base metal pieces to fuse them together while soldering is akin to gluing the base pieces together. Ace does not have welding facilities at this time.

Subtractive

Subtractive processes remove material from metal using cutting, milling, or turning techniques. Tools include bandsaws, mills, etc.

Shaping

Shaping is the process of re-shaping and fabricating metal objects without adding or removing any material. Tools include the brake, english wheel, hammer + anvil, etc.

