

STEEL AND PLYWOOD DESK

EPISODE 202.1

'STRIKE WHILE THE STEEL IS HOT'



MATERIALS NEEDED

- 48 feet of steel tube for the frame of the desk
- 1 sheet of G1S ¾' maple plywood for the desk top
- 50 1 ½" GRK cabinet screws
- HSS countersink bit for screwing into metal
- Orbital sandpaper to smooth plywood
- Boiled linseed oil for wood finish
- Polyurethane for wood finish

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STEP BY STEP BUILD PLAN

1. Create the steel base of the desk
 - a. This requires welding. Contact a professional welder to help you with this part of the project.
2. Construct the plywood desktop
 - a. Determine the size of the desktop from the completed frame
 - b. Mitre cut the plywood laminate to the top surface
 - c. Cut the plywood to the final size. Bevel the saw to 22 ½ degrees so that the top of the desk is larger than the bottom.
 - d. Build 2 shelves to fit inside the frame and attach them to the underside of each end of the desk.
 - e. Build simple drawers 1/8" smaller than the shelves so they fit inside
 - f. Attach the desktop to the steel frame by using 2-inch screws up through the steel frame sides.
 - g. Drill a 2 ½" hole into the top center of the desktop. Install a power bar with USB ports for charging devices on the underside of the desktop
3. Finish the wood
 - a. Sand the surface and all edges
 - b. Apply a coat of boiled linseed oil
 - c. Let the oil dry, and then rub it with steel wool
 - d. Apply two coats of polyurethane