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Evolution Rating: ★★★★★
Difficulty: **Intermediate**
Duration: **1 Day**

Upcycled Coffee Table

Side table with urban look and feel. From a single piece of scaffold tube and one scaffold plank it is possible to make a very usable piece of furniture. You do not require a fully fitted workshop and lots of tools, as you will see I made mine outside using a few simple tools. If you do not have power tools perhaps after seeing the result you may wish to purchase some and start your collection. The cost of this project is minimal as the items are reclaimed, with the exception of the scaffold clips. The money saved could be reinvested in a tool to make your next project easier.



Materials & Tools

- 1 x scaffold plank
- 4 metres scaffold tube
- 2 x scaffold cross clips
- 4 x Scaffold side clips
- Batten
- 4 x screw bolts
- 20 x wood screws
- Mitre saw
- Circular saw
- Drill and bit
- Try square
- Tape measure
- Pencil
- Sandpaper
- Danish Oil
- Protective glasses

The Plan

The table is approx 650mm wide and 1000mm long, standing approx 650mm high. The dimensions can be adjusted to suit your specific requirements. A plan is always a good way to approach any project, a few simple thoughts put on paper, measurements, and a sketch of the project, a side table in my case.

I have planned my table so as to use my materials efficiently, 3 x 1m pieces and the remaining piece from a 4m scaffold plank and all of my tubing is cut from a 4m scaffold pole **Photo 1**.



Photo 1



Photo 4

Leg Support Structure

The construction is basic and straight forward. The scaffold tube is cut to have a 45° angle on both ends, one long section passes through the scaffold cross clip and two shorter sections, again cut at 45° complete the cross shape **Photo 2**. This is repeated so as to form two crosses **Photo 3**. Once the crosses are tightened they can be joined using a short piece of tub inserted into the cross clip. That is the support structure made, very simple and took approx 45 mins.

Photo 4

Table top

The top is simply made using the 3 x 1m lengths of scaffold plank. The plank is cut into one metre lengths, **Photo 5**, and then joined together using a batten on the under side. You can either screw or nail the batten onto the planks to form a solid 1000 x 650 mm top **Photo 6**. I then used a circular saw to rip saw down the length of the remaining piece of plank to form a narrower piece, approx 120mm wide **Photo 7**. These pieces will be used to make a box frame to put on the underside of the table, to give some depth and cover the join where the legs meet the table. The leg structure will eventually be screwed to the box.

Once the table top and under box are assembled **Photo 8**. They need to be joined together, the easiest way of doing this is to attach a wooden batten to the side of the box and then screw through it to attach the table top, position it so its equal distance all round **Photo 8**.

Assembly

Place the table top upside down on a cloth, to protect the finish, so as underside is up. Take the already assembled leg structure and place it within the box frame of the table top. I have used scaffold clips to attach it to the box frame, one screw bolt in each **Photo 9**. Turn the table over, and that's it finished.



Finishing

Now to prepare the wooden parts for finishing. They can be left in the semi rough state, requiring minimal sanding or more sanding to produce a very smooth finish. If you have an electric sander all the better. A choice of oil, stain or paint can then be applied I have chosen to finish the table using Danish Oil, for this I have given it a good sanding down I then applied some Danish Oil, let it dry, another fine sanding and then a final coat **Photo 10**.

This part of project took approx 3 hours.

The table is now complete. The legs are adjustable to take account of any uneven surface.

A few simple materials, approx 4 hours of your time and a lot of satisfaction.

Instructions



Step 1

Introduction

Photo 1
Materials used.



Photo 2

Step 2

Place the scaffold tube on the mitre saw, set at 45°. Clamp work securely and cut. Cut all legs.

Photo 2
Cutting 45° on Scaffold tube using Mitre Saw.



Photo 3

Step 3

Place one piece all the way through the cross section, next place two smaller pieces to form the cross. Tighten up the allen screws using an allen key to suit your specific screws, I used 8mm.

Photo 3
Assemble of one section of leg structure.



Photo 4

Step 4

Once both Cross sections are made, join them together using a short square ended section of tube place in the last horizontal aperture.

Photo 4
Assembly of both legs using scaffold cross section.



Photo 5

Step 5

Measure the scaffold plank, to desired length, cut 3 pieces to form a table top.

Photo 5

Using the Circular saw to cut scaffold plank.



Photo 6

Step 6

Turn the planks upside down, select the best side for the top. Then cut some batten to hold the 3 pieces of plank together, using either nails or screws, I prefer screws.

Photo 6

Joining Plank for top.



Photo 7

Step 7

Measure the centre of the plank and set the guide fence on the circular saw. Place the plank offset from the bench and cut, keeping the fence against the side of the plank.

Photo 7

Assembly of both legs using scaffold cross section.



Photo 8

Step 8

The box frame is screwed together using waste off cuts in each corner. The place on the upturned table top and secure using strips of batten screwed to box the table top and box section.

Photo 8

Box frame and attached to table top.



Photo 9

Step 9

I place scaffold side clip to the top of each leg. Position them as high as possible, drill a pilot hole and use a screw bolt to secure the leg structure to the table. Repeat this for all legs.

Photo 9

Assembly of the table top to leg structure.



Photo 10

Step 10

Turn the table over and sand the top and sides. If you have an electric sander, its quicker and less tedious. Once sanded apply your finish. I chose to use Danish Oil. Sand again lightly and apply a final coat.

Photo 10

Finished the top with Danish Oil.

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185mm Multipurpose
Circular Saw



RAGE3-B
210mm Multipurpose
Compound Mitre Saw



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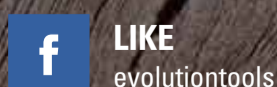
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