



**Construction Trades Virtual Learning**

# **Project Book 2**

## **Lesson 24**

**May 7, 2020**

# Construction Trades

## Lesson 19: April 30, 2020

### **Objective/Learning Target:**

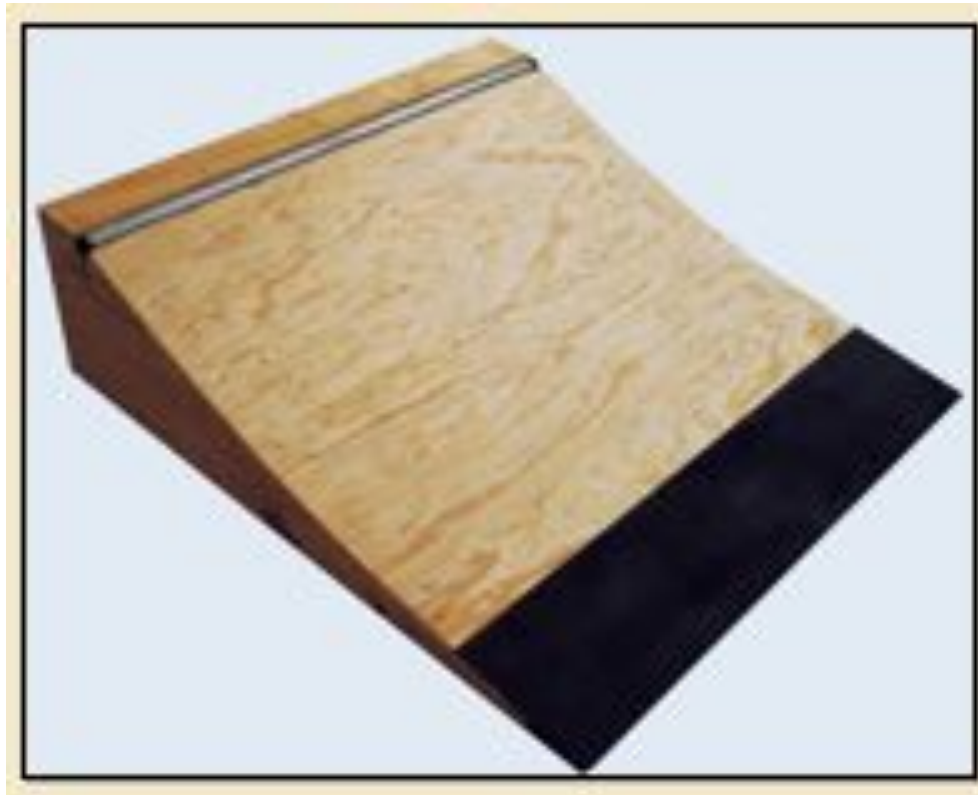
#### What You Will Know

- How to gather materials, lay-out, gather tools for and build a curved picnic table

# Building a Skateboard Ramp

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What skills and tools do you think we will use to build the skateboard ramp?

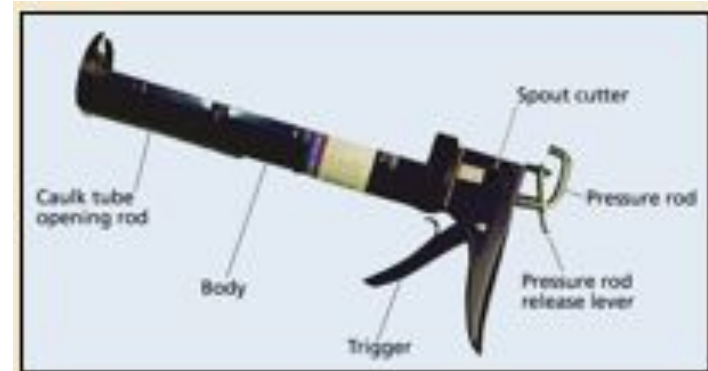


# Skateboard Ramp cont.

## What's New

### *Caulking Gun*

- Used to apply caulk



### *Combination Pilot Hole and Countersink Bit*

- Bores pilot hole and countersink in one operation
- Sized for specific sized screws



# Skateboard Ramp cont.

## *Exterior Wood Glue*

- Designed for outdoor use.

## *Panel Adhesive*

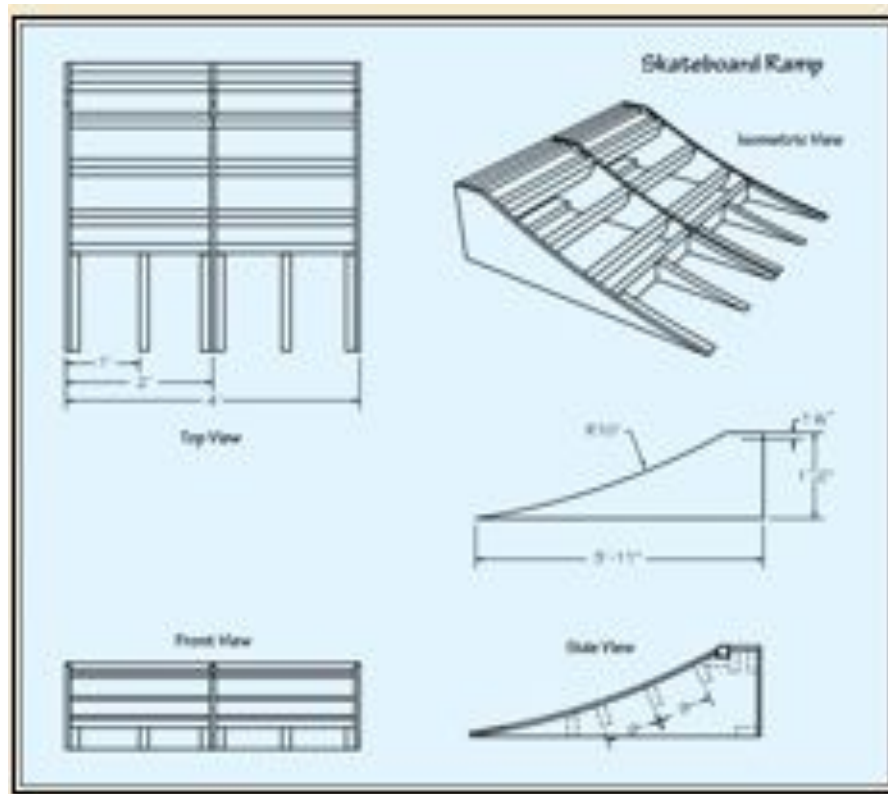
- Designed for bonding manufactured
- panels



# Skateboard Ramp cont.

## Cut List

- How many pieces should be on your cut list?



# Skateboard Ramp cont.

## Procedure - Cut the Ends and Center Supports

- Scribe a line perpendicular to the diagonal line
- Measure and mark 2" along the perpendicular line



# Skateboard Ramp cont.

## Procedure - Cut the Ends and Center Supports, cont.

- Tack a nail at the mark made in the previous step
- Stand the steel plate behind the nail and bend the ends to the 5" mark made in step 4 and to the bottom corner. This creates the curve in the ramp.





# Skateboard Ramp cont.

## Procedure - Cut the Ends and Center Support, cont.

- Tack a nail at the mark made in the previous step
- Stand the steel plate behind the nail and bend the ends to the 5" mark made in step 4 and to the bottom corner. This creates the curve in the ramp.



# Skateboard Ramp cont.

## Procedure - Cut the Ends and Center Support, cont.

- Locate the notch for the pipe by drawing a square line at the 5" mark, approximately 2" long.

### Tip

Pay close attention to where you make measurements. The placement of the pipe is vital to how well the ramp will function when used.



# Skateboard Ramp cont.

## Procedure - Cut the Ends and Center Support, cont.

- Measure  $1 \frac{5}{8}$ " on the line previously drawn and place a mark.
- Draw a square line through the  $1 \frac{5}{8}$ " mark back to the curved surface with the combination square.



# Skateboard Ramp, cont.

## Procedure - Cut the Blocking and Wedges

- Draw a diagonal line across the board from one corner of the square end to the marked line.

### Tip

Do not cut the wedges at the 16" square cut mark until after the diagonal cut is made. This provides more surface for sawing.



# Skateboard Ramp, cont.

## Procedure - Assemble the Sides and Blocking

- Fasten two plywood sections to the first block using the 2" deck screws and the screw gun. Use two screws through the plywood into each end of the block.



# Skateboard Ramp, cont.

## Procedure - Assemble the Sides and Blocking cont.

- Position wedge assembly between an end panel and the center panel along the line established in step 5, and fasten in place with 2" screws on each end.





# Skateboard Ramp, cont.

## Procedure - Assemble the Sides and Blocking cont.

- Install the six remaining blocks at equal distance between the pipe notch and the 2 x 4's of the wedge assembly with 2" screws.

### Tip

Secure three blocks on one side first, then the three on the other side. This will minimize having to angle the screws in order to secure the blocks to the center panel.



# Skateboard Ramp, cont.

## Procedure - Installing the Top and the Plywood for the ramp.

- Screw the  $\frac{3}{8}$ " plywood through the  $\frac{1}{4}$ " plywood into the 2 x 4 blocking with 2" deck screws, starting at the top of the ramp and working to the bottom.

### Tip

Check the alignment of the  $\frac{1}{4}$ " plywood with the  $\frac{3}{8}$ " plywood as it is being secured.

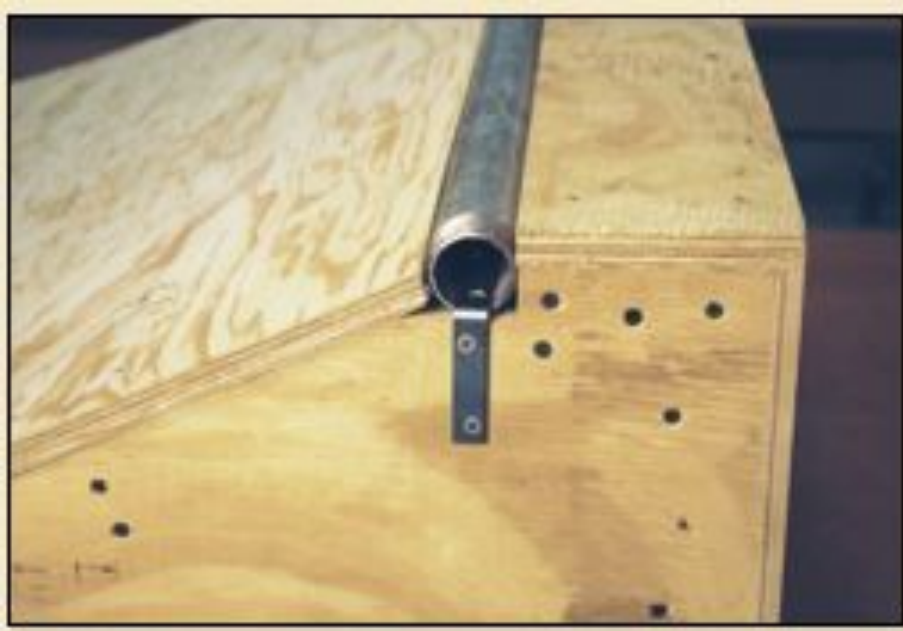




# Skateboard Ramp, cont.

## Procedure - Install the Pipe

- Install two 3" deck screws in the holes of the bracket through the plywood and into the supporting 2 x 4 behind the plywood.



# Skateboard Ramp, cont.

## Procedure - Install the Metal Plate

- Set the circular saw to cut  $\frac{5}{8}$ " deep.
- Cut along the line you previously marked.

## Question

Why is it important to avoid cutting into the wedges?



# Skateboard Ramp Conclusion

