

TREE BENCH

DIFFICULTY: **MEDIUM**



4 VOLUNTEERS



2 HOURS

MATERIALS

PREP

(2) 2x6x12ft boards

(2) 2x6x10ft boards

(1) 2x4x8ft board

(1) 4x4x8ft board

BUILD

(6) 2x4x43" trapezoids

(6) 2x6x36.5" trapezoids

(6) 4x4x16" pieces

(12) 2x4x8" pieces

2lb 2.5" deck screws

(6) .5"x8" galvanized bolts

(6) .5" galvanized washers

(6) .5" galvanized nuts

TOOLS

PREP

Miter saw

Tape measure

Pencil

Carpenter's square

Safety glasses

BUILD

Drill

.5" long bit

Screwdriver bit

Hammer

Pencil

Tape measure

Safety glasses

PREP LIST

1. Sort all materials into piles by like items to ensure you have materials needed to complete project.
2. Take the (2) 2x6x12ft boards. Cut each down to (3) 43" pieces, for a total of (6) 2x6x43" pieces.
3. Take the (2) 2x6x10ft boards. Cut each down to (3) 2x6x36 1/2" pieces, for a total of (6) 2x6x36.5" pieces.
4. Take the 2x4x8ft board. Cut into (12) 2x4x8" pieces. Because of saw blade width and variances in lumber length, your (12) pieces may not be exactly 8" long. This is fine.
5. Take the 4x4x8ft board. Cut into (6) 4x4x16" lengths.
6. Angle Cuts: Take the (6) 2x4x43" pieces cut in step 2. Set the miter saw to a 30° angle and cut off the angle on both sides of the wood to create (6) 2x6x43" trapezoids. Take the (6) 2x6x36.5" pieces cut in step 3. Set the miter saw to a 30° angle and cut off the angle on both sides of the wood to create (6) 2x6x36.5" trapezoids.

TREE BENCH

DIFFICULTY: **MEDIUM**

 4 VOLUNTEERS

 2 HOURS

MATERIALS

PREP

(2) 2x6x12ft boards

(2) 2x6x10ft boards

(1) 2x4x8ft board

(1) 4x4x8ft board

BUILD

(6) 2x4x43" trapezoids

(6) 2x6x36.5" trapezoids

(6) 4x4x16" pieces

(12) 2x4x8" pieces

2lb 2.5" deck screws

(6) .5"x8" galvanized bolts

(6) .5" galvanized washers

(6) .5" galvanized nuts

TOOLS

PREP

Miter saw

Tape measure

Pencil

Carpenter's square

Safety glasses

BUILD

Drill

.5" long bit

Screwdriver bit

Hammer

Pencil

Tape measure

Safety glasses

PREP LIST

1. Sort all materials into piles by like items to ensure you have materials needed to complete project.
2. First, attach the 2x4x8in braces to the legs. Place two (2) 2x4x8" on either side of one end of each 4x4x16" perpendicularly (creating a "T" shape). Be sure the long sides of the 2x4s are flush with the edge of the 4x4s. Use three 2 .5" screws on each side to secure the braces in place. Then, use the .5" drill bit to drill a hole through all three pieces of wood and place an 8" carriage bolt in the center of the joint using 1 washer and 1 nut.
3. Repeat the same process in step 2 for the remaining 2x4x8"s and the 4x4x16"s. You should have a total of 6 "T-shaped" legs.
4. Next take all six 2x6x43" trapezoids and lay them on the ground so that they create a ring.
5. Then take all six 2x6x36.5" trapezoids and lay them on the ground on the inside of the outer ring you just created.
6. Place each of the legs you created in Step 3 at each of the six joints where the trapezoids meet. Use the 2.5" screws to attach the legs to the trapezoid. NOTE: Be sure to leave one side unattached until after you've placed the bench around the tree!
7. Carry the Tree Bench to the tree you'll be placing the bench around, place it around the tree, and attach the final side of the bench.