

ADULT PICNIC BENCH

DIFFICULTY: **COMPLEX**



5 VOLUNTEERS



4 HOURS

MATERIALS

PREP

(2) 2x4x10ft boards

(2) 2x6x8ft boards

(6) 2x6x12ft boards

BUILD

(10) 2x6x72" pieces

(2) 2x6x65.75" trapezoids

(4) 2x6x39.25" parallelograms

(3) 2x4x34.25" trapezoids

(2) 2x4x32" parallelograms

1lb 2.5" deck screws

(16) 3/8"x3.5" galvanized carriage bolts

(16) 3/8" galvanized washers

(16) 3/8" galvanized nuts

TOOLS

PREP

Miter saw

Pencil

Tape measure

Carpenter's square

Safety glasses

BUILD

Drill

Screwdriver bit

Carpenter's square

Level

9/16" socket with ratchet or
9/16" open-ended wrench

Safety glasses

Pencil

3/8" drill bit

PREP LIST

1. Sort materials into piles by like items to ensure you have materials needed to complete project.
2. Take (1) 2x6x12ft boards. Cut into (2) 65.75" pieces.
3. Take the remaining (5) 2x6x12ft boards. Cut each into (2) 72" pieces, for a total of (10) 2x6x72" pieces.
4. Take the (2) 2x6x8ft boards. Cut each into (2) 39.5" pieces, for a total of (4) 2x6x39.25" pieces.
5. Take (1) 2x4x10ft boards. Cut into (3) 34.25" pieces.
6. Take the remaining 2x4x10ft board. Cut into (2) 32" pieces.
7. Angled Cuts: Take the (2) 2x6x65.75" pieces cut in step 2. Set the miter saw to 38° and cut an angle off of both ends, creating (2) 2x6x65.75" trapezoids. Take the (4) 2x6x39.25" pieces cut in step 4. Keep the saw at a 38° angle and cut an angle off of both ends, creating (4) 2x6x39.25" parallelograms. Take the (3) 2x4x34.25" pieces cut in step 5. Keep the saw at a 38° angle and cut an angle off of both ends, creating (3) 2x4x34.25" trapezoids. Take the (2) 2x4x32" pieces cut in step 6. Set the miter saw to 26° and cut an angle off of both ends, creating (2) 2x4x32" parallelograms.

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9/16" open-ended wrench

Safety glasses

Pencil

3/8" drill bit

PREP LIST

1. Sort materials into piles by like items to ensure you have materials needed to complete project.
2. Assemble A-frame sides. Line up bottom corners of 2x4x34.24" table top supports with outside 2x6x39.25" legs. Legs are flush with top support. Attach with two deck screws to hold in place.
3. Line up the 2x6x65 3/4" so they are level with ground, and top edge extends 12 1/8" from legs on either side. Secure with two deck screws.
4. Attach each intersection with carriage bolts: Drill 3/8" holes and use bolts to secure connection: keep bolt heads against the seat and top supports (facing outward) and the washers and nuts against the legs (facing inward on completed table). Make sure the bolts are staggered.
5. Attach seats: Stand up the two A-frame sides, make sure seat and top supports are facing outwards and legs are towards inside. Attach one 2x6x72" seat on each side of A-frames, flush with end of seat support. Overhang end of 2x6 seats 6" past the outside face of seat support. Attach with two screws. Secure second 2x6x72" seats and leave a 1/4" gape between them.
6. Attach tabletop boards and center support: (a) Lay the two (2) 2x6x72" tabletop boards on either side of table so they overhang A-Frames by 6". (b) Attach the 2x4x31.25" top support, parallel/centered between A-frames, with two screws down through the tabletop boards.
7. Then install the diagonal 2x4x32" braces flush with the center tabletop support and the seat supports (stagger slightly). Attach two screws at either end.
8. Attach remaining tabletop boards: Install the remaining 2x6x72" table top boards with two screws on either end, ensuring that they extend beyond the A-frames by 6" and have a .25" gap between them.