

Tool and Equipment First-Round Winner

Innovations Challenge

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Prepared by Transportation Planning
Missouri Department of Transportation

Mobile Platform



Description

The Mobile Platform attaches to a four post truck lift that serves as a ramp for changing tires. It's also used as a ladder with railing to allow employees to enter the cab of an elevated truck safely.

Benefit

The Mobile Platform greatly improves safety. It eliminates using a step ladder to access the cab of an elevated truck. Using the platform reduces the risk of a fall injury and makes the task being performed more efficient. It saves time since a ladder doesn't have to be used while one worker holds the ladder. It also simplifies work since it can be easily moved from side to side of the lift and allows employees to enter the cab without lowering the vehicle.

Materials and Labor

\$108.82 in materials costs with 10 hours of staff time.

Materials:

1/8" square tube – 38 feet total at \$1.25 per foot = \$47.50

14 gauge 1" square tube – 22 feet total at \$1.08 per foot = \$23.76

14 gauge 1-1/4" square tube – 4 feet total at \$1.05 per foot = \$4.20

1-1/2" angle iron 1/8" thick – 16 feet total at \$15.84

1" schedule 40 pipe – 2 feet total at \$1.76 per foot - \$3.52

Two 2" rollers at \$7.00 each = \$14

For More Information Contact:

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Additional information, photos or videos can be seen by accessing the Innovations Challenge SharePoint page at:

<http://sharepoint/systemdelivery/TP/Documents/InnovationsChallenge.aspx>

Mobile Platform Drawings

