

# Walking and Working Surfaces 180

## LADDER SAFETY



Image provided by ToolingU-SME shows the proper length for an extension ladder. To be safe, an extension ladder should be set up so that the distance between the base of the structure it is leaning against must be one-fourth of the length of the ladder to the point the ladder touches the structure. If you are going to step off, extend 3 feet past the height of the structure.

1. How far should a 16' ladder be from the wall?
2. How far should a 30' ladder be from the wall?
3. What angle is the ladder relative the ground base?
4. Does the angle change with a higher wall and longer ladder?



Unless otherwise noted, this work by the *Project IMPACT* Nebraska Community College Consortium is licensed under the Creative Commons Attribution 4.0 International License. To view a copy of this license, visit [CreativeCommons.org](https://creativecommons.org/licenses/by/4.0/) or <http://creativecommons.org/licenses/by/4.0/>

This product was funded by a grant awarded by the U.S. Department of Labor's Employment and Training Administration. The product was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership.