



Engineered Lumber used in Construction of Residential Structures

Course Guide

Course Description:

This 4 CE hour course looks at the use – and misuse – of engineered lumber in residential floor, wall, and roof framing systems. It addresses the North Carolina Building Codes for Residential Construction and amendments; in addition, it considers manufacturers' specifications and recommendations. Recognizing and reporting on defects and damage to engineered components, as well as proper corrective action, is stressed throughout.

Learning Objectives:

At the end of this course, inspection professionals will be able to:

1. Recall the types of loads on residential homes and how engineered lumber products can assist in design modifications of home layouts.
2. Recognize the general building requirements to support residential loads as stated in the NC Residential Building Code, relating to both floor and roofing systems.
3. Discuss the application of engineered lumber in framing, floor, and roofing systems, with attention to advantages, disadvantages, handling and proper installation.
4. Recall proper planned holes, cuts, and notches allowed in engineered lumber.
5. Recognize improper holes, cuts, and notches that happen during construction, and the most common proper methods of allowable repairs by manufacturers.
6. Understand the importance of involving a design professional such as the manufacturer or a Registered Engineer.
7. Recognize defects and incorporate them into report writing.