

2016 Team Activity - ANIMAL PRODUCTION SYSTEMS

All team members must wear safety glasses during the team event. To enter the CDE area, students must have safety glasses in their possession.

Team members will work together to complete the activity in two hours. This team event is worth 250 points. If a team member exhibits or performs any unsafe practice, points will be deducted from the total team score.

Possible Activity Scenarios.

Woodworking Skills for working on a Storage Building

Use of hand and power tools (circular saw, corded electric drill) and measuring tools (tape measure, framing square) to measure, layout, cut, and assemble a wooden frame for a specific project related to livestock housing, feeding, or watering. Possible skills:

- *Rafter layout and cutting*
- *Roof truss assembly*
- *Short wall frame construction*
- *Calculating Bill of Materials for materials for construction of multiple units*

Equipment Provided: *Specific tools and equipment:*

- *Framing Square*
- *Dimensional lumber, OSB*
- *Tape measure*
- *Claw hammer*
- *Nails*
- *Saw horses*

Equipment provided by the Team: *Teams will be expected to provide appropriate personal protective clothing, a laptop computer with Adobe Reader (version 6 or higher) capable of reading FLASHDRIVE's, HTML, and pdf documents, and a printer and cartridge, printer paper for printing, power cable, and connecting cable. Teams will be expected to test their laptop computer and printer compatibility BEFORE the Team Activity. The students will be provided with the references and an answer sheet via a flash drive that will work with the lap top computer that they bring with them.*

- *Safety glasses for each team member*

- *Tape measure*
- *Pencils*
- *Calculator*
- *Printer paper*

Resources:

<http://www.finehomebuilding.com/2004/09/01/laying-out-a-common-rafter-2>

<https://www.carpentry-pro-framer.com/framing-square.html>

http://inspectapedia.com/roof/Framing_Square_Table_Use.php

Textbooks:

- Herren, R. V. (2010). *Agricultural Mechanics: Fundamentals and Applications* (6th edition), Delmar-Cengage Learning.
- Wakeman, T.J. *Modern Agriculture Mechanics*

Additional textbooks will be announced as they are identified.

Other Reference Material:

- [Click here to review the scoring rubric for the team event!](#)

Other reference material will be announced as they are identified.

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