

**Agricultural Structures**  
**Unit III — Building Construction**  
**Student Handout**

Complete the activities below; use the checklists to evaluate your work.

**JS 5.1, Joist Layout**

1. Use the procedure outlined in “JS 5.1” to lay out floor joists.
2. Follow all assigned safety procedures. You can lose points for not following safety precautions and other assigned procedures.
3. Check your work and make any necessary changes to ensure that:
  - Measurements and cuts are accurate
  - Joists are centered
  - Joists fit well and are fastened for optimum strength
  - Project is square and straight
4. Have the instructor check your work. Due date \_\_\_\_\_.

**Note:** Your final assessment score will be based on your ability to safely and correctly lay out floor joists.

**JS 7.1, Rafter Layout**

1. Use the procedure outlined in “JS 7.1” to lay out the ridge cut, seat cut, and tail cut for a rafter on a board or piece of paper.
2. Check your work and make any necessary changes to ensure that:
  - Measurements are correct.
  - Ridge cut, seat cut, and tail cut are accurately laid out.
3. Have the instructor check your work. Due date \_\_\_\_\_.

**Note:** Your final assessment score will be based on your ability to correctly lay out rafters.

**AS 8.1, Applying Roofing Materials**

1. Use the procedure outlined in “AS 8.1” to apply model three-tab shingles and metal type materials.
2. Check your work and make any necessary changes to ensure that.
  - Measurements are accurate.
  - Cuts are accurate.
  - Courses are properly staggered.
  - Courses are properly overlapped.
  - Shingles and metal products are square and run straight.
  - Roofing materials are properly overlapped.
  - Roofing materials are running the right direction.

3. Have the instructor check your work. Turn in your completed activity questions. Due date \_\_\_\_\_.

**Note:** Your final assessment score will be based on your ability to correctly apply roofing material and on your responses to the activity questions.