

Students, please affix one of your self-adhesive identification labels to this space. Do not obscure other parts of this page with the label. If you do not have a self-adhesive identification label, please complete the following information. Write your name as it appears on your badge.

Your Name: _____

Participation Number:

Two letter state abbreviation.

State code (0301, 0302, to 0350)

Team member number (01, 02, 03, or 04)

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Students, please do not write or mark within this box.

Judges, after this skill sheet has been scored and double checked, write the total score for this activity in the blank below.

Skill Activity Score: _____

Judges Initials: _____

**2019 NATIONAL FFA AGRICULTURAL TECHNOLOGY & MECHANICAL SYSTEMS
CAREER DEVELOPMENT EVENT
STRUCTURAL SYSTEMS**

Please read and follow directions carefully! Use your time wisely!

GENERAL INFORMATION / DIRECTIONS:

Assume you are constructing a livestock trailer. While building the trailer you are required to weld pipe to pipe using FCAW-S. The joint must be leak-proof. This exercise represents this requisite skill.

PROCEDURES:

1. Safety: Because you are working in a welding area safety glasses must be worn at all times. A serviceable welding helmet with a shade ten (minimum) protective lens as well as leather gloves and long sleeves must be worn while welding.
2. Follow the provided plans to assemble and weld the required piece utilizing the flux cored arc welding process.
3. Mark your completed assembly and turn it in to a contest official with this sheet.

Activity Score Sheet

Graded Item	Possible	Score
1. Correct assembly and slag clean-up	3	_____
2. Bead width and contour	3	_____
3. Absence of undercut	3	_____
4. Bead uniformity	3	_____
5. Equal bead width on both mating surfaces	3	_____
6. Tie-in of beads	3	_____
7. Dye penetration test	9	_____
8. Safety	3	_____
TOTAL POINTS: (Judge: Double check point total and enter at top)	30	_____