



Total Points: _____

Name: _____

School: _____

2019 Area IV & VIII Ag.
Technology & Mechanical Systems CDE

Structural Systems Skill Area

Points are based on your performance of proper procedures as well as skill activities. Please practice safe methods while completing these activities as some points may be allocated to safety. If you need any clarifications please ask for assistance. Read instructions carefully and thoroughly before completing each question or section.

Part 1 Directions- For this skill area you will need to correctly make an anchor bolt plate for installing “J” bolts into a concrete slab. You will need to reference the provided drawing for bolt hole locations.

Evaluation Criteria Earned	Points Possible	Points
Holes the correct distance apart	4	_____
Holes the correct distance from the edge	4	_____
Hole is properly drilled	4	_____
Holes fit the go-no-gauge	4	_____

Total _____

Part 2 Directions: Please look at the components or parts and respond to the questions with the most appropriate answers. (2 points each)

1. Item _____ is used to make a groove in wet concrete.
2. Item _____ is used to push aggregate down into wet concrete.
3. Item _____ is used to create a smooth concrete finish.
4. Item _____ is used to hold reinforcement bar before placing concrete.
5. Item _____ is used to inspect the consistency of concrete.
6. Item _____ is used to create a rounded edge on a concrete surface.
7. Item _____ is used to increase tensile strength of concrete.