

Louisiana



FFA

Carpentry Career Development Event

Louisiana Rules - Developed 2018
Revised 2023

Carpentry Career Development Event

Purpose

The Carpentry Career Development Event is designed to provide opportunities for students to develop and showcase skills in carpentry. It is an extension of instruction given to students while enrolled in Agriscience/Agribusiness programs. This event is not designed for a national competition. It is designed for Louisiana only.

Objectives

1. To develop students' interests in the carpentry industry
2. To develop students' skills in performing tasks using common equipment in the construction industry.
3. To promote real work application of math
4. To encourage the development of safety attitudes in performing carpentry tasks.

CDE Format

1. Four individuals per school form a team. All four members will be scored and all four scores will count toward the team total.
2. There will be Carpentry CDE Area Competitions held to determine who is eligible for the State Carpentry CDE.
The top 4 teams will receive banners at area competitions and will be eligible to compete in the State Carpentry CDE that will be held at and during the State Fair of Louisiana.
(Adopted 2023)
3. Competition time is 3.5 hours broken into 2 parts that run concurrently
 - a. Blueprint Reading/Materials Calculation-30 Minutes
 - b. Project Construction-3 Hours

Part 1 – Blue Print Reading and Materials Calculation (30 Minutes)

- Each participant will develop and bill of materials and cut list from a blueprint.
 - Once a member of the team has completed the bill of materials, that member can begin working on construction project immediately. As subsequent members finish, they will go and work on construction project.
 - Calculators can be used. Cellphone calculators cannot.
 - Students will be tasked to use a set of blueprints to calculate the amount lumber needed and bill of materials, so that they have the least amount of waste and cheapest use of materials.

Part 2 – Project Construction (3 Hours)

- Students will work as a team to construct one project following blueprints and proper safety protocols.

Rules and Regulations

1. All general rules will apply except as indicated in the specific rules for this CDE
2. A team will consist of 4 FFA members enrolled in an Agriscience/Agribusiness course.
3. All 4 students will compete in both the Blue Print Reading/Materials Calculation and Project Construction components of the CDE.
4. The 4 scores from Blue Print Reading/Materials Calculation will be added together along with the overall score for the project for the final team score.
5. The project building plans will be released no less than month prior to CDE.
6. The blueprint for the Blue Print Reading/Materials Calculation will be given the day of the CDE.
7. Team members will be responsible for providing proper safety equipment, dress, construction materials, tools and brooms.
8. The CDE will last a maximum of 3.5 hours.
9. There will be no pre-marked lumber allowed unless prior notice is given by the event superintendent.
10. Jigs may be used.
11. Participant must clean work area after completing project. Failure to do so will result in deduction of points according to rubric.
12. The event coordinator will determine project and blueprints for the CDE.
13. Tie Breakers:
 - a. 1st Tie breaker will be based on Blueprint Reading and Materials Calculation
 - i. School that has the overall highest score on Blueprint Reading and Materials Calculation.
 - b. 2nd Tie breaker will be a visual comparison of fit and finish of final project.

Carpentry CDE
Construction Project Scorecard

Possible points			Total
50	Measurement	Measurements are accurate. Plans followed.	
50	Cuts/Joints	Cuts accurate. Joints fit tightly.	
50	Fastening/Assembly	No visible errors in assembly. No visible glue. No visible fasteners unless noted in plans.	
50	Finishing	Smooth finish with no visible scratches.	

Point Values changed from 25 to 50 points for each section. (Adopted 2023)

Carpentry CDE
Blueprint Reading and Materials Calculation Rubric

		Total
Quantity Materials	+/- Quantity 2x4s needed +/- Quantity 2x6s needed (Adopted 2023)	2 or 0 pts 2 or 0 pts (Adopted 2023)
Total Cost of Material	10 pts +/- \$10 8 pts +/- \$20 6 pts +/- \$40 4 pts +/- \$60 2 pts +/- \$80 0 pts +/- \$100	10 pts

Carpentry CDE Blueprint Score Sheet

Materials List

	Dimensions	Quantity	Linear Feet	# of boards
A				
B				
C				
D				
E				
F				
G				
H				
I				
J				
K				

Bill of Materials

	Dimensions	Quantity	Price
A			
B			
C			
D			
E			
F			
G			
Tax Rate:			\$ -
Total Cost of Materials:			\$ -