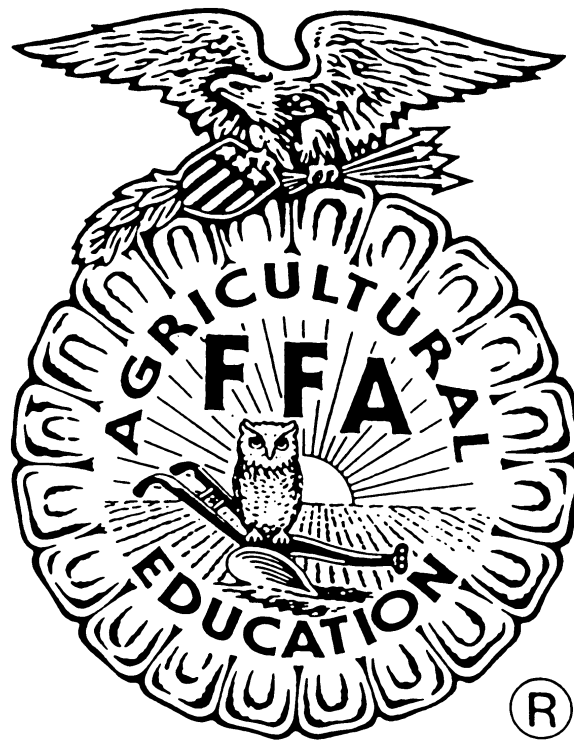


***AGRICULTURAL CONSTRUCTION
AND MAINTENANCE
CAREER DEVELOPMENT EVENT***

RULES AND REGULATIONS

TEAM COMPETITION



ALABAMA FFA ASSOCIATION

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No person shall be denied employment, be excluded from participation in, be denied the benefits of, or be subjected to discrimination in any program or activity on the basis of disability, sex, race, religion, national origin, color, or age. Ref: Sec. 1983, Civil Rights Act, 42 U.S.C.; Title VI and VII, Civil Rights Act of 1964; Rehabilitation Act of 1973, Sec. 504; Age Discrimination in Employment Act; Equal Pay Act of 1963; Title IX of the Education Amendment of 1972: Title IX Coordinator, P.O. Box 302101, Montgomery, Alabama 36130-2101 or call (334) 242-8444.

AGRICULTURAL CONSTRUCTION AND MAINTENANCE CAREER DEVELOPMENT EVENT

PURPOSE

This event is designed to provide students of Agriscience Education and members of the FFA an opportunity to compete and demonstrate their skills, abilities and competencies in Agricultural Construction and Maintenance.

ELIGIBILITY AND REGULATIONS

For specific Eligibility Rules and Regulations, refer to the Contests and Awards Booklet.

Only district eliminations will be held prior to the state event.

The top four winners in the North, Central and South districts will compete in the state finals.

INSTRUCTIONAL AREA

The event will be based on the subject matter found in the state approved Course of Study and the Course Outline for Agricultural Construction and Maintenance.

Each participant will compete in all phases of the event.

DISTRICT EVENT

1. Will be held at regular district eliminations.
2. Event will consist of two (2) phases and will be conducted by qualified personnel.

Written Examination - This phase will consist of 75 multiple choice questions. [One (1) point per question, for a possible 75 points.]

Problem Solving - This phase will consist of identifying materials or solving problems. Each participant will solve 25 problems. [Three (3) points per problem, for a possible 75 points.]

3. The participant will have 80 minutes in which to complete the two (2) phases of the event.
4. Electronic calculators are allowed.

STATE AWARDS/SPONSOR(S):

Refer to Alabama FFA Contests and Awards Booklet at:
http://www.alabamaffa.org/forms_applications.htm

SUBJECT MATTER CONTENT

The following is a list of the subject matter areas along with specific skills, abilities, understandings, and suggested references. The skills noted with the asterisks (*) indicate specific activities that are suitable for skills or “hands-on” activities of the event. References listed are suggested guides for study in preparation for the event. Examination questions and problem-solving activities will be selected from the references listed and Agribusiness Performance Based Curriculum Guides.

KNOWLEDGE AND SKILL AREAS

1. Communications Through Drawings*
2. Sketching and Drawing*
3. Setting Up and Adjusting the Builder’s Level*
4. Setting Up and Adjusting the Transit Level*
5. Boring and Cutting Holes*
6. Driving and Setting Nails*
7. Hand Tools, Their Uses and Care
8. Power Woodworking Tools, Their Uses and Care
9. Safety Rules (In All Areas)
10. Laying Out Building Site with Builder’s Level*
11. Laying Out Building Site with Transit Level*
12. Footings and Foundations*
13. Using Plot Plan Data
14. Identifying and Constructing Framing Components*
15. Roof Framing*
16. Scaffolds and Ladders
17. Floor Framing and Subfloors*
18. Roofing Materials*
19. Exterior Wall Finishes
20. Thermal and Sound Insulation*
21. Stair Construction*

22. Interior Walls and Ceiling Finish*
23. Interior Doors and Window Trim*
24. Built-ins and Cabinets*
25. Chimneys and Fire Places*
26. Laying Out and Installing Roofs
27. Installing Prefabricated Siding
28. Use Architectural Engineers Scale
29. Wiring Circuits
30. Using Simple Circuit Schematics
31. Drawing Electrical Diagrams
32. Estimating Cost of Labor and Materials
33. Planning and Installing Conduit
34. Masonry Construction*
35. Estimating Masonry Materials and Labor Costs*
36. Heating and Cooling*
37. Painting and Wood Finishing*
38. Employability Skills

REFERENCES

The most current edition of the following references will be used.

CARPENTRY

Modern Carpentry,
Goodheart-Willcox Company
123 West Taft Drive
South Holland, Illinois 60473

Carpentry and Building Construction
Glencoe/McGraw-Hill
6510 Jimmy Carter Boulevard
Norcross, Georgia 35071

Roof Framing, Floor Framing, Wall Framing, and Ceiling Framing
American Association for Vocational
Instructional Materials (AAVIM)
745 Gaines School Road
Athens, Georgia 30605

CABINETMAKING

Cabinetmaking and Millwork
Glencoe/McGraw-Hill
6510 Jimmy Carter Boulevard
Norcross, Georgia 35071

BLUE PRINT READING

Residential Print Reading
American Technical Publications and Print
1155 West 175th Street
Homewood, Illinois 60430

ELECTRICITY

Modern Residential Wiring
Goodheart-Willcox Company
123 West Taft Drive
South Holland, Illinois 60473

Electrical Wiring
American Association for Vocational
Instructional Materials (AAVIM)
745 Gaines School Road
Birmingham, Alabama 35291-0630

SURVEYING

Elementary Surveying
Agriscience Education
3410 Skyway Drive
Auburn, Alabama 36830-6444

MASONRY

Masonry Skills, 1990 Edition
Delmar Publishers Inc.
Marketing Services
2 Computer Drive, West
Box 15051
Albany, New York 12214-5015

Concrete Transparency Masters
Agriscience Education
3410 Skyway Drive
Auburn, Alabama 36830-6444

Modern Masonry
Goodheart-Willcox Company
123 West Taft Drive
South Holland, Illinois 60473

GENERAL REFERENCES

Mechanics in Agriculture

The Interstate Printers and Publishers
19-27 North Jackson Street
Danville, Illinois 61832

Agritechnology Construction Study Guide

Agriscience Education
3410 Skyway Drive
Auburn, Alabama 36830-6444

Agriscience/Agritechnology Laboratory Guide

Agriscience Education
3410 Skyway Drive
Auburn, Alabama 36830-6444

Advanced Agriscience/Agritechnology Laboratory Guide

Agriscience Education
3410 Skyway Drive
Auburn, Alabama 36830-6444

Farm Surveying

Vocational Agriculture Service
College of Agriculture
University of Illinois
Urbana, Illinois 61801

Basic Mathematics Simplified

Delmar Publishers Inc.
Marketing Services
2 Computer Drive, West
Box 15015
Albany, New York 12214-5015

Basic Surveying Technology

Mid-America Vocational Curriculum Consortium
1500 West Seventh Avenue
Stillwater, Oklahoma 74074-4364

**AGRICULTURAL CONSTRUCTION & MAINTENANCE
CAREER DEVELOPMENT EVENT**

CHAPTER _____

Participant	Participant Number	Event Phase	Participant Score	Participant Total
Name of Participant # 1		Written Exam (75 points)		
		Problem Solving (75 points)		
		Participant # 1's Total (Maximum score possible is 150 points.)		
Name of Participant # 2		Written Exam (75 points)		
		Problem Solving (75 points)		
		Participant # 2's Total (Maximum score possible is 150 points.)		
Name of Participant # 3		Written Exam (75 points)		
		Problem Solving (75 points)		
		Participant # 3's Total (Maximum score possible is 150 points.)		
Name of Participant # 4		Written Exam (75 points)		
		Problem Solving (75 points)		
		Participant # 4's Total (Maximum score possible is 150 points.)		
TEAM RANKING		TOTAL TEAM SCORE (The three highest individual participant scores will make up the team score. Maximum score possible is 450 points.)		