



# EMC/FFA Wiring Contest

**A guide to the EMC/FFA Electrification  
Career Development Event.**

A competitive educational  
program offering scholarships  
which promotes the safe,  
efficient use of electrical energy.

**2011-2012 School Year Edition**



Sponsored by Georgia's  
Electric Membership Corporations  
and the Georgia Association FFA



## FOREWORD

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Education in our nation can never reach limitations in stressing the importance of the learning process. Formal training and education are invaluable in shaping each life as it matures. We learn from other people and experiences. Those who become the “best they can be” take advantage of the broadest possible range of opportunities. They may try, fail, and ultimately learn from their mistakes. Leaders develop best when they are enthusiastic participants in change.

Your local electric membership corporation or EMC and its statewide association Georgia EMC are very enthusiastic about the opportunity of working with the FFA in support of today’s young people. We believe that this EMC/FFA Electrification Career Development Event is an opportunity for change offering potential lifetime knowledge, and maybe even a career choice. This project which is rich in successful history and tradition is a mutually beneficial activity which develops leaders. With the encouragement of safe electrical wiring, an awareness of electricity, and methods of energy conservation, tomorrow’s citizens are informed individuals. With a firm belief that the spirit of competition brings forth the best in individuals in their striving for success, it is to the benefit of both the EMCs and local communities to support FFA involvement in programs like this EMC/FFA Electrification Career Development Event.

The 42 electric cooperatives in Georgia are proud of our state’s FFA chapters and offer assistance to make sure this organization provides the best educational opportunity for its young leaders. Your local EMC has printed materials, program and teaching aids available, as well as personnel to assist you in answering questions about this project.

You are invited to contact your local EMC to assist you and ask them for information about this event as well as about the cooperative “way of life.”

## TABLE OF CONTENTS

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|  |    |
|--|----|
| Foreword.....  | i  |
| Table of Contents.....                                     | ii |
| Overview.....  | 1  |
| CDE Regional/Area Map.....                                 | 4  |
| CDE Contacts by Region/Area.....                           | 5  |
| EMC Map.....   | 7  |
| CDE Contacts by EMC.....                                   | 8  |
| EMC/FFA Testimonial Letter/Quotes.....                     | 9  |
| History of the EMC/FFA CDE.....                            | 11 |
| History of Georgia’s Electric Membership Corporations..... | 12 |
| Individual Competition                                     |    |
| Panel Wiring Instructions.....                             | 15 |
| Bill of Materials.....                                     | 17 |
| Application.....   | 18 |
| Presentation/Demonstration Score Sheet.....                | 19 |
| Wiring Problem Score Card.....                             | 22 |
| Example Problem-Solving Questions.....                     | 21 |
| Public Relations - news release.....                       | 21 |
| Awards.....  | 21 |
| How to claim your scholarship.....                         | 22 |

## GEORGIA FFA ASSOCIATION

# *AGRICULTURAL ELECTRIFICATION (EMC)*

## CAREER DEVELOPMENT EVENT

### I. OVERVIEW

The Agricultural Electrification (EMC) Career Development Event is an activity, which provides opportunities for FFA members to demonstrate their skills in electrical wiring, critical thinking, and communications. The Electric Membership Corporations throughout Georgia sponsors these activities as a means of promoting education in the safe, efficient use of electrical energy.

### II. PURPOSE

The overall objective of the Agricultural Electrification (EMC) Career Development Event is to promote and expand educational programs in electrification for students enrolled in agricultural education. To achieve this objective, the CDE reinforces the classroom instruction and FFA supervised activity projects in three (3) stages consisting of a problem-solving exercise, practical wiring exercise, and an oral demonstration.

### III. ELIGIBILITY

Any active FFA member who is in grade 9, 10, 11, or 12 in the State of Georgia is eligible to participate in this activity. Chapters are limited to one (1) CDE contestant per chapter. The top two (2) individuals in the area CDE's may participate in the state CDE during the same year. *A contestant in the State Agricultural Electrification CDE placing 1<sup>st</sup> may not participate in this CDE again.*

### IV. RULES

**Presentation/Demonstration: (10 points or 10%)** Each CDE contestant will use effective communications skills in describing actual electrical wiring tasks. All participants will use the same topic: Materials, props, etc. will be provided. CDE contestants are encouraged to fully explain all necessary steps in performing the required electrical tasks. A panel of judges will score each CDE contestant on this phase of the CDE and will arrive at an average score of 1 – 10 points. These points will be included in the CDE contestant's total overall score. No written speeches will be allowed at rostrum, only 3" x 5" note outline cards. Any note cards must be presented to judges for review prior to beginning the presentation.

**Problem-Solving: (30 points or 30%)** Each CDE contestant will complete a 30-item problem-solving activity within a 45 minute time limit. Each item will be a multiple-choice question relative to actual wiring practices, requirements of the National Electrical Code, and/or knowledge of rural electrification and electric cooperatives. Reference materials, which may be helpful in solving problems, will be available for use by the CDE contestant. No reference materials will be for available for the rural electrification and electric cooperatives problem-solving questions. Each problem-solving item will count one point toward each CDE contestant's total score.

**Wiring Problem: (60 points or 60%)** Each CDE contestant will complete an assigned wiring problem. Judging will be based on the current National Electrical Code. The problem will be scored (60 points maximum) on workability of assigned problem, safety, efficiency in use of materials, time required to complete the problem, and neatness. Wiring materials will be provided. Each CDE contestant must furnish his/her own tools. Cordless drills and cordless screwdrivers may be used to install device boxes and service entrance strap. Cordless screwdriver 4.0 volts or less may be used to tighten conductors to device screws, devices to device box, and device coverplates to the device, **cordless drills may not be used beyond the installation of device boxes to the wiring frame and installing the service entrance strap.** No type of razor-cutting devices may be used.

### **Incomplete Wiring Problem**

An incomplete wiring problem is the result of a contestant calling “Time” before the 90 minute cut-off in order to receive time credit. Even though the problem may work correctly as assigned, the contestant has not met the following criteria for a completed problem:

1. Secured branch circuit cables to frame with a minimum of five (5) staples.
2. Attached all devices to box.
3. Installed all cover plates.
4. Installed the service entrance cable into service entrance panel through the cable connector.

The problem is considered to be incomplete if the above criteria have not been met and the points that the contestant would have earned on time will be reduced to zero (0).

**V. EVENT FORMAT** Individual students of FFA Chapters in grades 9 – 12 compete in one of six area Career Development Events with the top two (2) winners from each area participating in a final state CDE. The CDE contestants demonstrate skills in three (3) areas. The skills encompass the following:

1. A problem-solving exercise that examines the student’s knowledge of electric cooperative operation and history, electrical facts and knowledge, National Electric Code Book (NEC) usage, wiring circuit schematic interpretation, and circuit planning skills.
2. A practical wiring exercise of a specific electrical circuit that requires the CDE contestant to read a schematic, then plan and actually wire the circuit. This exercise provides a means to examine correct planning and wiring methods, efficiency and safety considerations in wiring.
3. An oral demonstration/presentation to strengthen leadership skills and abilities to communicate, using an assigned topic concerning some component of an electrical system.

## **VI. SCORING**

Scoring for Agricultural Electrification (Georgia Electric Membership Corporation) career development will consist of three parts: speech/demonstration activity (10% of the total score), problem-solving activity (30% of the total score), and wiring problem (60% of the total score).

## **VII. TIE BREAKERS**

In the event of a tie, first the CDE contestant with the highest wiring score, second the CDE contestant with the highest problem-solving score, third the CDE contestant with the highest speech/demonstration score will be declared the winner of the individual placing.

## **VIII. AWARDS**

Awards shall be determined each year by the Board of Trustees of the Georgia FFA Foundation. This event is made possible through the Georgia Electric Membership Corporation as a special project.

## **IX. REFERENCES**

National Fire Protection Assn. – “National Electrical Code” – Current Edition

The American Association for Vocational Instructional Materials (AAVIM) – “Electrical Wiring” – Current Edition

The American Association for Vocational Instructional Materials (AAVIM) – “Understanding Electricity” – Current Edition

The American Association for Vocational Instructional Materials (AAVIM) – “Electrical Controls” – Current Edition

The American Association for Vocational Instructional Materials (AAVIM) – “How Electric Motors Start & Run” – Current Edition

National Food and Energy Council – “Agricultural Wiring Handbook” – Current Edition

Georgia Electric Membership Corporation – “History of Georgia’s Electric Membership Corporations” – page 12 of this publication.

Georgia Electric Membership Corporations "History of the EMC Electrification Career Development Event" Current Edition - page 11 of this publication

Georgia Electric Membership Corporation – Student Guide to Wiring



# EMC/FFA Electrification Career Development Event Contacts



Gale Cutler  
Public Relations Coordinator  
Georgia Electric Membership Corporation  
P.O. Box 1707  
Tucker, GA 30085-1707  
(770) 270-6950  
(770) 270-6995 Fax  
[gale.cutler@georgiaemc.com](mailto:gale.cutler@georgiaemc.com)

Contact information for all state Agricultural Education staff can be found at  
<http://aged.ces.uga.edu>

## Region Contacts

### North Region

| Area I   | Area II   |
|--|---|
|  <p><b>Mr. Stan Mitchell</b><br/>North Region Director<br/>Four Towers, UGA<br/>Athens, GA 30602<br/>(706) 552-4461<br/>(706) 542-9602 Fax<br/><a href="mailto:smitchell@doe.k12.ga.us">smitchell@doe.k12.ga.us</a></p> |  <p><b>Mr. Sidney Bell</b><br/>Ag Mechanics Area Teacher<br/>Four Towers, UGA<br/>Athens, GA 30602<br/>(706) 552-4464<br/>(706) 542-9602 Fax<br/><a href="mailto:sbell@gaaged.org">sbell@gaaged.org</a></p> |
|  <p><b>Mr. Sonny Mahan</b><br/>Blue Ridge Mountain EMC<br/>P. O. Box 9<br/>Young Harris, GA 30582<br/>(706) 379-3121<br/>(706) 379-4834 Fax<br/><a href="mailto:sonny.mahan@brmemc.com">sonny.mahan@brmemc.com</a></p>  | <p><b>Mr. Howard Johnson</b><br/>Habersham EMC<br/>P. O. Box 25<br/>Clarksville, GA 30523<br/>(706) 754-2114<br/>(706) 754-1460 Fax<br/><a href="mailto:howard@hemc.coop">howard@hemc.coop</a></p>  |

## Central Region

| Area III   | Area IV  |
|--|--|
| <div style="display: flex; align-items: center;">  <div> <p><b>Mr. Chris Corzine</b></p> <p>Central Region Director</p> <p>P. O. Box 4060<br/>1005 State University Dr. Fort Valley, GA 31030<br/>(478) 822-7385<br/>(478) 825-6980 Fax<br/><a href="mailto:ccorzine@doe.k12.ga.us">ccorzine@doe.k12.ga.us</a></p> </div> </div> | <div style="display: flex; align-items: center;">  <div> <p><b>Mr. Kevin Jump</b></p> <p>Ag Mechanics Area Teacher</p> <p>P. O. Box 4060<br/>1005 State University Dr. Fort Valley, GA 31030<br/>(478) 825-6068<br/>(478) 825-6980 Fax<br/><a href="mailto:kjump@gaaged.org">kjump@gaaged.org</a></p> </div> </div> |
| <div style="display: flex; align-items: center;">  <div> <p><b>Mr. Jonathan Stewart</b></p> <p>Tri-County EMC<br/>P. O. Box 487<br/>Gray, GA 31032<br/>(478) 986-8119<br/>(478) 986-0004 Fax<br/><a href="mailto:jonathans@tri-countyemc.com">jonathans@tri-countyemc.com</a></p> </div> </div>                                  | <div style="display: flex; align-items: center;">  <div> <p><b>Ms. Jennifer Bryant</b></p> <p>Oconee EMC<br/>P. O. Box 37<br/>Dudley, GA 31022<br/>(478) 676-3191 ext. 1158<br/>(478) 676-4300 Fax<br/><a href="mailto:jennifer.bryant@oconeeemc.com">jennifer.bryant@oconeeemc.com</a></p> </div> </div>           |

## South Region

| Area V   | Area VI   |
|--|---|
| <div style="display: flex; align-items: center;">  <div> <p><b>Mr. Lynn Barber</b></p> <p>South Region Director</p> <p>ABAC 34, 2802 Moore Hwy<br/>Tifton, GA 31793<br/>(229) 386-3428<br/>(229) 391-6838 Fax<br/><a href="mailto:lbarber@doe.k12.ga.us">lbarber@doe.k12.ga.us</a></p> </div> </div> | <div style="display: flex; align-items: center;">  <div> <p><b>Mr. Von Peavy</b></p> <p>Ag Mechanics Area Teacher</p> <p>ABAC 34, 2802 Moore Hwy<br/>Tifton, GA 31793<br/>(229) 386-3428<br/>(229) 391-6838 Fax<br/><a href="mailto:sbell@gaaged.org">sbell@gaaged.org</a></p> </div> </div> |
| <div style="display: flex; align-items: center;">  <div> <p><b>Mr. Chipper Jones</b></p> <p>Middle Georgia EMC<br/>P. O. Box 190<br/>Vienna, GA 31092<br/>(229) 268-2671<br/>(229) 268-7215 Fax<br/><a href="mailto:chipperj@mgemc.com">chipperj@mgemc.com</a></p> </div> </div>                     | <div style="display: flex; align-items: center;"> <div> <p><b>Mr. Justin Franks</b></p> <p>Satilla REMC<br/>P. O. Box 906<br/>Alma, GA 31510<br/>(912) 632-7222<br/>(912) 632-3724 Fax<br/><a href="mailto:jfranks@satillaemc.com">jfranks@satillaemc.com</a></p> </div> </div>   |

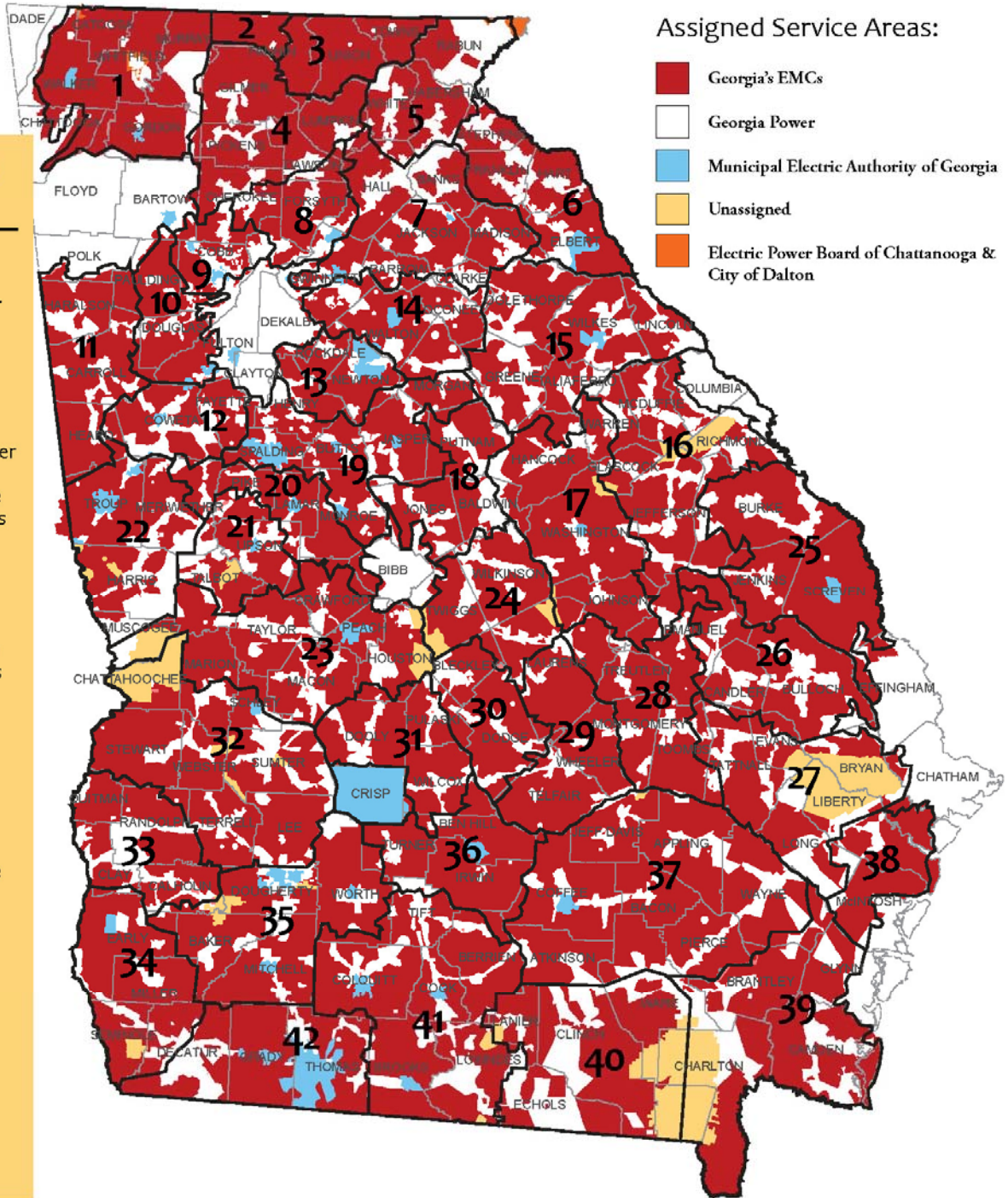
# Georgia's Electric Suppliers

## Georgia's EMCs:

1. North Georgia
2. Tri-State
3. Blue Ridge Mtn.
4. Amicalola
5. Habersham
6. Hart
7. Jackson
8. Sawnee
9. Cobb
10. GreyStone Power
11. Carroll
12. Coweta-Fayette
13. Snapping Shoals
14. Walton
15. Rayle
16. Jefferson
17. Washington
18. Tri-County
19. Central Georgia
20. Southern Rivers
21. Upson
22. Diverse Power
23. Flint
24. Oconee
25. Planters
26. Excelsior
27. Canoochee
28. Altamaha
29. Little Ocmulgee
30. Ocmulgee
31. Middle Georgia
32. Sumter
33. Pataula
34. Three Notch
35. Mitchell
36. Irwin
37. Satilla
38. Coastal
39. Okefenokee
40. Slash Pine
41. Colquitt
42. Grady

## Assigned Service Areas:

- Georgia's EMCs
- Georgia Power
- Municipal Electric Authority of Georgia
- Unassigned
- Electric Power Board of Chattanooga & City of Dalton



provided by



**Georgia EMC**

*Representing Georgia's Electric Cooperatives*

Links to the Web sites of Georgia's EMCs listed below can be found at  
[www.georgiaemc.com](http://www.georgiaemc.com) in the EMCs of Georgia section

|     |                              |                   |              |
|-----|------------------------------|-------------------|--------------|
| 1.  | North Georgia EMC            | Dalton, GA        | 706-259-9441 |
| 2.  | Tri-State EMC                | McCaysville, GA   | 706-492-3251 |
| 3.  | Blue Ridge Mountain EMC      | Young Harris, GA  | 706-379-3121 |
| 4.  | Amicalola EMC                | Jasper, GA        | 706-253-5200 |
| 5.  | Habersham EMC                | Clarksville, GA   | 706-754-2114 |
| 6.  | Hart EMC                     | Hartwell, GA      | 706-376-4714 |
| 7.  | Jackson EMC                  | Jefferson, GA     | 706-367-5281 |
| 8.  | Sawnee EMC                   | Cumming, GA       | 770-887-2363 |
| 9.  | Cobb EMC                     | Marietta, GA      | 770-429-2100 |
| 10. | GreyStone Power Corp.        | Douglasville, GA  | 770-942-6576 |
| 11. | Carroll EMC                  | Carrollton, GA    | 770-832-3552 |
| 12. | Coweta-Fayette EMC           | Palmetto, GA      | 770-502-0226 |
| 13. | Snapping Shoals EMC          | Covington, GA     | 770-786-3484 |
| 14. | Walton EMC                   | Monroe, GA        | 770-267-2505 |
| 15. | Rayle EMC                    | Washington, GA    | 706-678-2116 |
| 16. | Jefferson Energy Cooperative | Wrens, GA         | 706-547-2167 |
| 17. | Washington EMC               | Sandersville, GA  | 478-552-2577 |
| 18. | Tri-County EMC               | Gray, GA          | 478-986-3134 |
| 19. | Central Georgia EMC          | Jackson, GA       | 770-775-7857 |
| 20. | Southern Rivers Energy       | Barnesville, GA   | 770-358-1383 |
| 21. | Upton EMC                    | Thomaston, GA     | 706-647-5475 |
| 22. | Diverse Power                | LaGrange, GA      | 706-845-2000 |
| 23. | Flint Energies               | Reynolds, GA      | 478-847-3415 |
| 24. | Oconee EMC                   | Dudley, GA        | 478-676-3191 |
| 25. | Planters EMC                 | Millen, GA        | 478-982-4722 |
| 26. | Excelsior EMC                | Metter, GA        | 912-685-2115 |
| 27. | Canoochee EMC                | Reidsville, GA    | 912-557-4391 |
| 28. | Altamaha EMC                 | Lyons, GA         | 912-526-8181 |
| 29. | Little Ocmulgee EMC          | Alamo, GA         | 912-568-7171 |
| 30. | Ocmulgee EMC                 | Eastman, GA       | 478-374-7001 |
| 31. | Middle Georgia EMC           | Vienna, GA        | 229-268-2671 |
| 32. | Sumter EMC                   | Americus, GA      | 229-924-8041 |
| 33. | Pataula EMC                  | Cuthbert, GA      | 229-732-3171 |
| 34. | Three Notch EMC              | Donalsonville, GA | 229-524-5377 |
| 35. | Mitchell EMC                 | Camilla, GA       | 229-336-5221 |
| 36. | Irwin EMC                    | Ocilla, GA        | 229-468-7415 |
| 37. | Satilla REMC                 | Alma, GA          | 912-632-7222 |
| 38. | Coastal EMC                  | Midway, GA        | 912-884-3311 |
| 39. | Okefenoke REMC               | Nahunta, GA       | 912-462-5131 |
| 40. | Slash Pine EMC               | Homerville, GA    | 912-487-5201 |
| 41. | Colquitt EMC                 | Moultrie, GA      | 229-985-3620 |
| 42. | Grady EMC                    | Cairo, GA         | 229-377-4182 |

## EMC/FFA CDE QUOTES

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*The Georgia FFA/EMC Wiring CDE is the most appealing CDE for me as an Agriculture Instructor. Watching a student's abilities grow as he or she works towards competition is rewarding. It takes an exceptional student to speak, think critically and prove his electrical wiring skills required of this contest. Thank you Georgia EMC for your support, encouragement and opportunity you give our students.*

Timmy White  
Ag Mechanics Instructor, Coffee High School

*The EMC CDE is perhaps the most challenging competition that I have had the opportunity to participate in. It takes many hours of preparation. I have participated for two years and was fortunate to win the Area and State in my senior year. My plans are to become an Ag teacher and to encourage my students to enter this great CDE. Many thanks to Georgia's EMCs for their investment in the lives of FFA members.*

Dustin Hart  
2008 EMC/FFA State CDE Winner  
Colquitt County FFA

*The Georgia FFA/EMC Wiring Contest is one of my favorites as an Ag teacher. This CDE teaches critical thinking skills and public speaking skills as well as electrical wiring skills that a student can use in whatever career path that they choose. Thank you Georgia EMC for your partnership with the FFA and the encouragement and opportunity that you give to the students.*

Mr. Stacey Beacham  
Honorary State FFA Degree 2007  
Ag Mechanics Teacher, Colquitt County High School

*Participating in the EMC/FFA CDE has given me the chance to develop and use skills that I never knew that I had. By participating in the CDE, I have found my career choice in the electricity field. This has impacted my life by gaining leadership and self-confidence. Thank you to all who work to make this a great experience.*

Stephen Strickland  
2006 EMC/FFA State CDE Winner  
Colquitt County FFA

*Participating in the EMC/FFA Electrification Career Development Event is one of the most memorable events throughout my high school career. The contest is the most difficult that I have ever participated in and it has taught me dedication and how to work hard to achieve my goals. The contest has also helped me with my future career goals in life to go to college and earn a degree in electrical engineering.*

Brandon Pritchett  
2005 EMC/FFA State CDE Winner  
Chapter Treasurer 2004-05  
Wayne County FFA

*The EMC/FFA CDE is a wonderful opportunity that is made available to students all across the state. I was able to participate in this event for three years and gained many skills that I can use for a lifetime. The scholarship money that is provided by Georgia EMC is very helpful in my education. Many thanks to Georgia's EMCs and all those involved for what I believe is a most influential CDE.*

Britt Shiver  
2002-2004 EMC/FFA Area V Winner and State CDE participant  
Colquitt County FFA

*The EMC contest gave me direction in selecting a career as an electrician and the skills that I learned helped me to get my current job. The wiring skills, problem solving, and speaking skills that I learned helped to prepare me for technical college and dealing with customers. It was a great experience and has had a tremendous impact on my life. I would like to thank all of the individuals that worked to make this opportunity available to me and to other youth in Georgia.*

Kelvin Kitchens  
2003 EMC/FFA State CDE Winner  
Washington-Wilkes FFA Chapter

*Participating in the State EMC/FFA electrification contest was one of the greatest learning experiences I've ever had. The contest opens windows of opportunity for all who participate. Being such a prestigious contest, anyone who participates should feel honored. Through the contest I've been able to explore new fields, and make decisions for the future.*

John Bramblett  
American FFA Degree 2002  
Georgia FFA North Region Vice President 2001-2002  
2000 EMC/FFA State CDE Winner  
Jefferson City FFA Chapter

*I would like to thank Georgia EMC for sponsoring the electrical wiring CDE. Your assistance and sponsorship of this contest is what makes it the most exciting and prestigious CDE in the state. It is always exciting for me to see one of my students continue on into the electrical field because of the experience, knowledge, and financial assistance that they have received in this CDE.*

Scott Wheatley  
Banks County FFA Advisor

*The EMC/FFA Electrification Career Development Event combines knowledge of the National Electric Code, wiring skills, and leadership into one noteworthy activity. The vital information and speaking skills that are obtained serve as life long influences on any person's life, male or female. The basic principles are useful to an individual of any background and any future career goal.*

*Personally, the event gave me the perseverance and dedication needed to complete a physical task with the determination and hard work needed to learn electrical standards. It will truly serve as a meaningful part of my life skills education.*

Carol Spruill  
Georgia FFA President 1997-1998  
1997 EMC/FFA State CDE Winner

*I find it truly amazing that one contest, such as the EMC/FFA CDE, can harness the most dynamic, dedicated, and personable youth in one event. It brings together students from all backgrounds regardless of color or gender. All participants in this event are truly winners.*

Bobby Ferris  
Georgia FFA Vice President 1991-1992  
Southern Rivers Energy, Barnesville, GA

*I know from first-hand experience how beneficial the (EMC/FFA) CDE can be. I was fortunate to win the 1973 State Electrical Wiring CDE. The scholarship money I won paid for my first two years of college at Gainesville Junior College. If not for that money, my college education would have been postponed.*

*During my years of teaching, I have seen this CDE help many students "blossom" into a level of confidence they did not realize they could reach. Many of these students have also gone on to pursue work or a career related to the electrical industry.*

Tony Embrick  
Honorary American FFA Degree 2002  
Agriculture Teacher, Jackson County High School (retired)

## HISTORY OF THE EMC/FFA ELECTRIFICATION CAREER DEVELOPMENT EVENT

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*“The enthusiasm and spirit the FFA members show each year in the EMC/FFA Electrification Career Development Event overwhelms us. This has been, and we hope it will continue to be, our most successful endeavor. Each year the Career Development event has been an improvement over the year before.”* These remarks, from Jerry L. Dover, 1973-1974 Electrification Career Development Event Committee Chairman, present a common sentiment of those associated with the EMC/FFA Career Development Event.

The EMC/FFA Career Development Event began at Carroll EMC in the early 1960s. Skip Yow, a Carroll EMC employee, developed plans for an electrical wiring Career Development Event.

In 1966, five North Georgia EMCs cooperated in an “area” CDE that featured a team format. The first place individual winner received a \$500 college scholarship.

The first statewide EMC/FFA CDE was held at Flint EMC’s Reynolds, Georgia office in March 1968. Eliminations took place in six district CDEs held that February. The two top CDE contestants in each district were eligible to compete in the state CDE. Nearly 350 students from 116 FFA chapters participated on the district level.

The state CDE that year had four parts. First was an oral presentation on rural electrification. Second was the submission of a record of electrical projects completed by the student. Third, a true-false examination on wiring and rural electrification was given. Fourth, an actual wiring problem was given to the student to solve. Larry Stallings of the Heard County FFA Chapter was the first state CDE winner.

Since the first state meet, the CDE has been fine-tuned over time. For a time, the CDE was divided into individual and chapter competitions. The record of wiring projects was eliminated from the individual CDE; this component was merged into the chapter competition. Wiring teams were eliminated.

Additional improvements included the change of the examination from a true-false format to multiple choice questioning. Since this time, the written test has been changed again, this time to a problem-solving exercise. Hands-on problems are displayed and CDE contestants are required to use practical knowledge to arrive at the best solution for each problem.

The oral, or “speech,” element of the CDE has also been revised. Currently in lieu of a three to four minute speech, the CDE contestant gives a presentation/demonstration explaining an actual electrical wiring task. Examples of wiring materials are used to make the demonstrations more “life-like.”

The location of the state CDE also changed from the Reynolds location and is now held each year at the State FFA-FCCLA Center near Covington, GA.

Agricultural educators and EMC representatives still look for ways to improve an already good CDE. For example, the use of power hand tools for the wiring problems has been implemented.

*And what has happened to those young people who participated in the EMC/FFA CE of years past? Those students are now electricians, farmers, home builders, veterinarians, heating and air contractors, agricultural educators, engineers, EMC employees - - you name it.*

No matter what occupation these winners chose, all of them have one thing in common - - friendship and fond memories of the FFA program, their EMC and the EMC/FFA Career Development Event.

## HISTORY OF EMCs IN GEORGIA

It was a hot summer in 1924 when Franklin D. Roosevelt took his first vacation at his cottage in Warm Springs, Georgia, to recoup his failing health. One evening while sitting on his front porch looking out over the valley, he noticed no lights and this puzzled him.

Upon receiving his first month's electric bill, he discovered why.

“ . . . There was only one discordant note in that first stay of mine at Warm Springs. When the first-of-the-month bill came in for electric lights for my little cottage, I found that the charge was 18 cents a kilowatt hour – about four times what I pay at Hyde Park, New York,” Roosevelt later said. “That started my long study of public utility charges for electricity into farm homes . . . . So it can be said that a little cottage at Warm Springs, Georgia, was the birthplace of the Rural Electrification Administration.”

Eleven years later on May 11, 1935, he signed the executive order that made REA a reality. That summer discovery had been the catalyst which produced one of the largest, most successful consumer service projects ever undertaken by the United States government.

The REA, under the auspices of the New Deal administration, was designed as part of a general program to bring electric power out of the cities to the countryside in order to stimulate economic growth and relieve unemployment. It is important to remember that no rural electric cooperative is owned or operated by the Rural Electrification Administration, nor does REA generate, distribute, or sell electricity.

The REA, now called the Rural Utilities Service or RUS is a federal agency in the U.S. Department of Agriculture, which provides loans and technical assistance to commercial, municipal and cooperative power companies provided they meet certain criteria. Most of the loans have been made to cooperatives to build distribution systems like your own local EMC.

America has had a love affair with electricity ever since Thomas A. Edison invented the light bulb and built the first central station electric system in lower Manhattan in 1882. Shortly afterward, cities all over the United States lit up. But, it was not until over 50 years later that the rural countryside surrounding the industrial cities started benefiting from the miracle of electricity.

At that time, nine out of ten families did without electric power. Today, 99% of the nation's farms have electric service.

How did it happen?

It began as early as 1923 when efforts were made to identify how electric power could be used on farms. The National Electric Light Association organized a committee that created and financed a rural electrification experiment near Red Wing, Minnesota with 20 farms.

Careful cost and production records were kept. The use of electricity dramatically increased, but production increased even more sharply. At the same time, overall operating expenses for the farmers dropped. They saw their lives were more productive and less tiring. The replacement of hand and animal labor by electric power worked better than expected. It looked as if the “miracle of electricity” would spread like wildfire throughout the countryside.

But it was not to be. At least, not yet.

Officials of the utility companies were not impressed. Service in the cities was their priority. Costs for bringing electric power to all outlying countryside were prohibitive. In a nutshell, though it was beneficial for the farmers, it was not seen to be profitable for the power companies.

The creation of the REA in 1935 was the necessary stimulus to spur power companies to an interest in rural electrification never displayed before. The primary function of the REA was to provide loans to power companies that would use the new funds to extend lines into rural America. Unfortunately, only a few companies applied for these funds.

In 1936, the Rural Electrification Act was signed. The Act made the REA the chief lending agency for 10 years, and made non-profit organizations such as cooperatives the main target of its funds. Thus was the customer-owned electric co-op born. And, though the coming world war was to create manpower and supply shortages, that first year of life for the new federal agency saw the number of farms connected for service increased by over 175%.

After the war, the enthusiasm for electrifying the countryside continued. The advent of new technology and the efforts of dedicated citizens throughout the United States enabled the REA to demonstrate effectively and profitably how the job could be done. Today, there are almost 1,000 rural electric cooperatives nationwide, thanks to the support and financing of RUS. Each one has several characteristics, which differ from investor-owned utilities.

For example, a cooperative is an enterprise that is jointly owned and equally controlled by those who use its services. It is a form of business more interested in service to its members than in making profits. (Of course, it must make enough revenue to pay its own way.) In any cooperative, memberships are open to all that want to use its services, generally for a small membership fee. Co-ops also reflect true democratic control; each member has one vote, regardless of the size of investment or amount of use.

Throughout their long history, Georgia's EMCs have worked with the other utilities to strengthen their common ability to serve the people of Georgia. The EMCs have done much of the leading along the way, including the building of distribution lines that now reach into 73 percent of Georgia's land area. In 1974, the EMCs formed Oglethorpe Power Corporation, a generation and transmission cooperative, to assure the delivery of electricity to parts of the State not served by Georgia Power.

In 1975, Georgia's EMCs came to the financial aid of Georgia Power with an infusion of \$513 million. Demand for electricity was soaring and the cooperatives stepped in to help shoulder the burden of building new generating units. EMCs became involved in Plant Vogtle, a nuclear generating facility, when Georgia Power Company again found itself in financial difficulty, and again turned to the EMCs for assistance.

By 1987, the EMC investment in Plant Vogtle had grown to \$2.9 billion. Without the financial help of the EMCs, Georgia Power would likely have been forced to shut down construction, leaving an expensive bill for its customers and shareholders to pay. Our action in coming to the aid of Georgia Power in the '70s and '80s enabled Georgia Power to realize lower interest costs in building Plant Vogtle. All utilities involved shared in the savings that resulted from the ability of the electric co-ops to borrow at low rates, which kept all of Georgia's power rates lower.

Overcoming all the obstacles encountered in building Plant Vogtle is an excellent example of how our electric utilities have always taken a "one Georgia" view of electricity supply, underscoring the EMC commitment to strengthen our communities and our state.

In Georgia, the 42 electric membership cooperatives serve 4.5 million residents – half of Georgia's population - and more than 75,000 commercial and industrial customers. As a result of more than seven decades of dedicated effort to improve the quality of life in rural America, many electric co-ops enjoy a value to their communities that goes beyond their ability to simply provide reliable light and heat. Communities depend on them for their economic development initiatives, their civic leadership, and their commitment to local job creation.

Although your local EMC is responsible for delivering power, it works closely with other cooperative businesses in accomplishing that task. Today, they can take credit for the formation of the nation's largest generation cooperative, Oglethorpe Power Corporation ([www.opc.com](http://www.opc.com)). Georgia Electric Membership Corporation ([www.georgiaemc.com](http://www.georgiaemc.com)) is the statewide trade association for Georgia's EMCs. GEMC provides services in the areas of government relations, safety and training programs, economic development and communications, including publishing the state's largest circulation monthly publication, *GEORGIA Magazine* ([www.georgiamagazine.org](http://www.georgiamagazine.org)).

Looking towards the need for environmentally friendly and economically sensible power generation for our growing state, Georgia's EMCs formed a new cooperative called Green Power EMC ([www.greenpoweremc.com](http://www.greenpoweremc.com)). An idea conceived in 2001 and operational by 2003, Green Power EMC is the first renewable energy program in Georgia and is one of the largest renewable energy programs in the southeastern United States.

Green Power EMC utilizes "green" resources such as biomass, solar, wind, and water to generate electricity. EMCs were the first utilities in Georgia to invite consumers to choose how some of their electricity is produced. Since inception, Green Power EMC has generated over 209,123,925 kilowatt-hours of green energy, providing the same environmental benefits as taking 168,133 cars off Georgia's roads, or planting 239,589 acres in trees.

Green Power EMC is also educating middle and high school students about the benefits of solar energy. Through the Sun Power for Schools program, participating EMCs partner with schools to install a photovoltaic system to harness energy from the sun and provide on-line data monitoring in the classroom. This is the first statewide academic program to evaluate the cost effectiveness of solar energy.

The forefathers of rural electrification were truly people with a purpose. The development of the rural electric program began in Georgia more than 75 years ago, and the dynamic growth hasn't slowed. Working together to attract new industry and build stronger communities, EMCs have contributed greatly to Georgia's growth.

### ***Georgia's 42 Electric Membership Corporations***

- ◆ Serve approximately 4.5 million residents – half of Georgia's population.
- ◆ Georgia's co-ops serve more customers than any other state network of EMCs in the nation.
- ◆ Cover 73 percent of Georgia's land area, serving customers in 157 of Georgia's 159 counties.
- ◆ Average less than ten customers per mile of distribution line, compared with 35 customers per mile for investor-owned electric utilities and 47 customers per mile for municipal electric utilities.
- ◆ Employ almost 5,000 workers.
- ◆ Operate as not-for-profit cooperatives to offset cost of serving large land areas.
- ◆ Operate the largest distribution network in the state by far, with more than 181,000 miles of electric power lines.
- ◆ You can find out more about Georgia's EMCs by going to [www.georgiaemc.com](http://www.georgiaemc.com)

# STATE FFA-EMC ELECTRIFICATION CONTEST

## RULES / INSTRUCTIONS

### A. General:

1. Each contestant is responsible for providing his/her own tools. Any tool not specifically prohibited by the rules of this CDE as published will be considered proper tools unless deemed unsafe by the CDE superintendent.

\*\* Tools that cannot be used:

- Razor cutting devices. (Utility knives, box cutters, etc)
- Corded Drills of any kind.
- Cordless Drills for any use other than mounting boxes and Service Entrance straps.
- Cordless screwdrivers over 4.0 volts.

2. No outside material or references will be allowed. Use only the references and materials provided to you for planning and completion of the assigned wiring problem.

3. All materials will be SURFACE MOUNTED on the wiring panel (simulated wall) following the accepted 1/3 rule with the 1 1/2" edge surface of the Top 2 X 4 (plate) representing the ceiling and the studs representing wall studs. (Lights in top 1/3-, switches in middle 1/3, and receptacles in bottom 1/3).

4. The overall allotted time for the wiring portion of this CDE will be two hours to include 30 minutes of planning, and 90 minutes of "work" time.

5. Safety Glasses must be worn during the wiring portion of the CDE.

6. In case of an accident, notify the judge immediately. We will stop your time, treat your injury, and then resume the contest.

**B.** Each contestant will have a maximum of 30 minutes to make plans and procure materials after the wiring problem given out. During this 30 minute period, the contestant will be allowed to:

1. From the floor plan, make a wiring Diagram drawing of the circuit on the paper provided. (Not to be graded.)

2. Using the Diagram as a guide, select the proper devices and materials needed to complete the wiring problem according to the 2011 National Electric Code and complete the Bill of Materials provided with the *exception of circuit wire, Service Entrance cable, and Grounding wire, which will be available free choice after wiring time has begun.* Economy of materials should be considered; you will be docked points for extra or excessive materials left over after completing the problem.

3. Present the completed Bill of Material to the "Storekeeper" who will assemble the requested materials.

4. After picking up your items from your Bill of Materials, take the "sack" of materials back to your station, lay out the materials and check for correctness of ordered materials but no "work" can begin. Work includes any assembling or disassembling of materials as received from the "store" as well as mounting of boxes and cutting of wire.

\*\*If you ordered an incomplete Bill of Material, additional materials may be acquired by completing another Bill of Material form. Additional order forms may be acquired and filled, ONLY AFTER THE 90 MINUTE WIRING TIME HAS BEGUN. NO MATERIAL MAY BE RETURNED TO THE "STORE". If the Bill of Materials was not filled correctly, bring it to the attention of your "storekeeper" immediately.

5. Lay out and arrange TOOLS in anticipation of beginning the wiring problem.

**C.** Each contestant will be given a maximum of 90 minutes to complete the actual wiring of the problem to include 60 minutes of “work” time in which to wire the problem without loss of points for time, and 30 minutes to complete the problem after the allotted 60 minutes resulting in loss of points for time. All “work” will cease after the 90 minute wiring period and the contestant will leave the wiring area to complete the Problem Solving and speech Demonstration portions of the CDE.

After the signal has been given, the contestant may:

1. Select wire from the supply available (list below). Do not carry coils of wire to your work station.
2. Install the circuit on the short side of the wiring panel (simulated wall) with the 1 1/2" edge surface of the Top 2 X 4 (plate) representing the ceiling and the studs representing studs.
3. Connect devices and lights with hooks at terminals only, **DO NOT BACKWIRE!** \*\*Exception is the GFCI outlet, which is designed to be backwired but does use the screw terminal in the process.
4. Since no weatherhead is installed, ground the Service Entrance Panel to an assumed “driven” ground.
5. Upon completion of the assigned problem, signal the time keeper. No further work can be done after “TIME” is called.

6. Problems will be mounted on the wiring panel as described on the floor plan. No points will be given for workability if installation is not the ASSIGNED PROBLEM.

7. All points gained for completing the problem within the 60 to 90 minute “work” period will be forfeited if the problem is deemed “Incomplete.”

\*\* An incomplete wiring problem is the result of a contestant calling “Time” before the 90 minute cutoff in order to receive time credit. Even though the problem may work correctly as assigned, the contestant has not met the following criteria for a complete problem:

- a. Secured branch circuit cables to the frame with a minimum of five (5) staples.
- b. Attached all devices to boxes.
- c. Installed all cover plates.
- d. Installed the Service Entrance cable into the Service Entrance Panel through the cable connector.

\*\* Light bulbs do not have to be installed to be a “complete” problem and are not listed on the Bill of Material.

8. The wiring problem, ALL RELATED WORK SHEETS AND REFERENCES, and extra materials ordered from the “store” and not used, **MUST BE LEFT AT THE WORK STATION** after completing the problem for the contestant to be scored.

**D.** Judges will answer questions concerning DEFECTIVE MATERIALS, but not questions concerning the wiring problem.

The following sizes and types of wire will be available for the contestants to choose from:

|            |                      |                              |
|------------|----------------------|------------------------------|
| SEU #1     | 3 conductor aluminum | No. 4 soft drawn bare copper |
| SEU #2     | 3 conductor aluminum | No. 6 soft drawn bare copper |
| SEU #4     | 3 conductor aluminum | No. 8 soft drawn bare copper |
| N.M. Cable | 14/2 w/ground        | N.M. Cable 12/2 w/ground     |
| N.M. Cable | 14/3 w/ground        | N.M. Cable 12/3 w/ground     |

# STATE BILL OF MATERIALS EMC/FFA CONTEST

Contestant Number \_\_\_\_\_

- \_\_\_\_\_ Box, 4" X 1 1/2" round or octagonal w/o clamps, 1/2" knockouts
- \_\_\_\_\_ Box, 4" X 2 1/8" round or octagonal w/o clamps, 1/2" knockouts
- \_\_\_\_\_ Box, 4" X 1 1/2" square, 1/2" knockouts
- \_\_\_\_\_ Box, 4" X 2 1/8" square, 1/2" knockouts
- \_\_\_\_\_ Box, 4" X 2 1/8" X 1 7/8" device, handy, w/o clamps, 1/2" knockouts
- \_\_\_\_\_ Box, 4" X 2 1/8" X 2 1/8" device, handy, w/o clamps, 1/2" knockouts
- \_\_\_\_\_ Box connector, 1/2" non-watertight
- \_\_\_\_\_ Box connector, 1" non-watertight
- \_\_\_\_\_ Box connector, 1 1/4" non-watertight
- \_\_\_\_\_ Oval service cable strap, #1 - 3 conductor
- \_\_\_\_\_ Oval service cable strap, #2 - 3 conductor
- \_\_\_\_\_ Oval service cable strap, #4 - 3 conductor
- \_\_\_\_\_ Circuit breaker, 15 amp, 120v, single pole
- \_\_\_\_\_ Circuit breaker, 20 amp, 120v, single pole
- \_\_\_\_\_ Coverplate, metal, duplex receptacle, handy box
- \_\_\_\_\_ Coverplate, metal, GFCI duplex receptacle, handy box
- \_\_\_\_\_ Coverplate, metal, toggle switch, handy box
- \_\_\_\_\_ Coverplate, metal, single duplex receptacle, for 4" square box
- \_\_\_\_\_ Coverplate, metal, GFCI duplex receptacle, for 4" square box
- \_\_\_\_\_ Coverplate, metal, double duplex receptacles, for 4" square box
- \_\_\_\_\_ Coverplate, metal, single switch, for 4" square box
- \_\_\_\_\_ Coverplate, metal, double switch, for 4" square box
- \_\_\_\_\_ Coverplate, metal, combination switch & duplex receptacle, for 4" sq. box
- \_\_\_\_\_ Lampholder, keyless
- \_\_\_\_\_ Receptacle, duplex outlet, grounding
- \_\_\_\_\_ Receptacle, duplex outlet, ground-fault circuit-interrupter type
- \_\_\_\_\_ Screws, #10 X 3/4" hex head
- \_\_\_\_\_ Switch, single pole toggle
- \_\_\_\_\_ Switch, three-way toggle
- \_\_\_\_\_ Switch, four-way toggle
- \_\_\_\_\_ Clip, grounding box
- \_\_\_\_\_ Grounding pigtail with grounding screw
- \_\_\_\_\_ Grounding pigtail without screw
- \_\_\_\_\_ Staple, NM cable
- \_\_\_\_\_ Connector, yellow, solderless
- \_\_\_\_\_ Connector, red, solderless
- \_\_\_\_\_ Connector, green grounding
- \_\_\_\_\_ Electrical Tape - Black
- \_\_\_\_\_ Electrical Tape - Red
- \_\_\_\_\_ Electrical Tape - White

Revised 7/1/04

**FFA/EMC ELECTRIFICATION  
CAREER DEVELOPMENT EVENT APPLICATION**

**THIS APPLICATION IS TO BE FILLED OUT COMPLETELY BY THE INDIVIDUAL SELECTED TO REPRESENT THE CHAPTER IN THE \_\_\_\_\_ (REGION/AREA) CAREER DEVELOPMENT EVENT, AND MAILED OR FAXED TO THE RESPECTIVE REGION COORDINATOR BY \_\_\_\_\_.**

CONTESTANT'S NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_ CITY \_\_\_\_\_ ZIP \_\_\_\_\_

PARENTS \_\_\_\_\_

CHAPTER \_\_\_\_\_ SCHOOL \_\_\_\_\_

SCHOOL ADDRESS \_\_\_\_\_ CITY \_\_\_\_\_ ZIP \_\_\_\_\_

CHAPTER ADVISOR(S) \_\_\_\_\_

ADVISOR'S ADDRESS \_\_\_\_\_ CITY \_\_\_\_\_ ZIP \_\_\_\_\_

CHAPTER ADVISOR(S) \_\_\_\_\_

ADVISOR'S ADDRESS \_\_\_\_\_ CITY \_\_\_\_\_ ZIP \_\_\_\_\_

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NAME OF ALTERNATE \_\_\_\_\_

ADDRESS \_\_\_\_\_ CITY \_\_\_\_\_ ZIP \_\_\_\_\_

PARENTS \_\_\_\_\_

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MAIL TO or FAX TO: (Region Coordinator) \_\_\_\_\_

(Address) \_\_\_\_\_

\_\_\_\_\_

# FFA/EMC ELECTRIFICATION CDE

## DEMONSTRATION/PRESENTATION ACTIVITY SCORE SHEET

CONTESTANT NO. \_\_\_\_\_

SCORE \_\_\_\_\_

### KNOWLEDGE

|                              |                    |  |
|------------------------------|--------------------|--|
| FACTS/ ACCURACY OF STATEMENT | (25 POINTS)        |  |
| CONFIDENCE                   | ( 5 POINTS)        |  |
| UNDERSTANDABLE               | (10 POINTS)        |  |
| <i>SUBTOTAL</i>              | <i>(40 POINTS)</i> |  |

### UTILIZATION OF MATERIALS PROVIDED

|                            |                    |  |
|----------------------------|--------------------|--|
| EFFECTIVE USE OF MATERIALS | (15 POINTS)        |  |
| ORGANIZATION OF MATERIALS  | (10 POINTS)        |  |
| <i>SUBTOTAL</i>            | <i>(25 POINTS)</i> |  |

### PRESENTATION

|                  |                    |  |
|------------------|--------------------|--|
| GESTURES         | (5 POINTS)         |  |
| POSTURE          | (5 POINTS)         |  |
| EYE CONTACT      | (5 POINTS)         |  |
| VOICE PROJECTION | (10 POINTS)        |  |
| <i>SUBTOTAL</i>  | <i>(25 POINTS)</i> |  |

### APPEARANCE

|                 |                    |  |
|-----------------|--------------------|--|
|                 | (10 POINTS)        |  |
| <i>SUBTOTAL</i> | <i>(10 POINTS)</i> |  |

### TIME LIMIT

|                                |  |  |
|--------------------------------|--|--|
| OKAY <input type="checkbox"/>  |  |  |
| OVER <input type="checkbox"/>  |  | (6 MINUTES, DEDUCT 5 POINTS) _____     |
|                                |  | (7 MINUTES, DEDUCT 10 POINTS) _____    |
|                                |  | (8 MINUTES, DEDUCT 15 POINTS) _____    |
|                                |  | (9 MINUTES, DEDUCT 20 POINTS) _____    |
|                                |  | (10 MINUTES, DEDUCT 25 POINTS) _____   |
|                                |  | (WILL BE STOPPED AT 10 MINUTES) _____  |
| UNDER <input type="checkbox"/> |  | (4 MINUTES, DEDUCT 5 POINTS) _____     |
| <i>SUBTOTAL</i>                |  | <i>(MINUS 25 POINTS MAXIMUM)</i> _____ |

### SUBTOTALS

|                                   |             |  |
|-----------------------------------|-------------|--|
| KNOWLEDGE                         | (40 POINTS) |  |
| UTILIZATION OF MATERIALS PROVIDED | (25 POINTS) |  |
| PRESENTATION                      | (25 POINTS) |  |
| APPEARANCE                        | (10 POINTS) |  |
| TIME LIMIT                        | (-5 POINTS) |  |

## TOTAL

(100 POINTS) \_\_\_\_\_

EMC/FFA Career Development Event Revision 7/1/04

**NOTE: NO WRITTEN SPEECHES WILL BE ALLOWED AT ROSTRUM.  
 ONLY 3X5 OUTLINE CARDS ARE PERMITTED.  
 ANY NOTE CARDS TO BE USED MUST BE PRESENTED TO JUDGES  
 FOR REVIEW PRIOR TO BEGINNING THE PRESENTATION.**



## EXAMPLE PROBLEM SOLVING QUESTIONS

Examples of problem solving questions and wiring diagrams from past competitions can be found on the Georgia Agricultural Education Web site: <http://aged.ces.uga.edu/>

## AGRICULTURAL ELECTRIFICATION (EMC) NEWS RELEASES

Agricultural Electrification (EMC) news releases can be found on the Georgia Agricultural Education Curriculum Resource and Reference CD. Click on the FFA button, and then scroll down until you find the news release you need for the occasion.

## EMC/FFA CAREER DEVELOPMENT EVENT

### *GEORGIA EMC*

## AWARDS

### Area Career Development Event

|  |                               |
|--|-------------------------------|
| 1 <sup>st</sup> Place – Individual                                   | \$500.00 Scholarship & Plaque |
| 2 <sup>nd</sup> Place – Individual                                   | \$300.00 Scholarship & Plaque |
| 3 <sup>rd</sup> /4 <sup>th</sup> /5 <sup>th</sup> Place – Individual | Plaques                       |
| 1 <sup>st</sup> Place – Advisor                                      | \$50.00 & Plaque              |
| 1 <sup>st</sup> Place – Chapter                                      | Plaque                        |
| 2 <sup>nd</sup> Place – Chapter                                      | Plaque                        |

### State Career Development Event

|  |                                 |
|--|---------------------------------|
| 1 <sup>st</sup> Place – Individual                     | \$1,000.00 Scholarship & Plaque |
| 2 <sup>nd</sup> Place – Individual                     | \$750.00 Scholarship & Plaque   |
| 3 <sup>rd</sup> Place – Individual                     | \$500.00 Scholarship & Plaque   |
| 4 <sup>th</sup> – 12 <sup>th</sup> Place – Individuals | State Finalist Plaques          |
| 1 <sup>st</sup> Place – Advisor                        | \$250.00 & Plaque               |



# Georgia EMC

*Representing Georgia's Electric Cooperatives*

Congratulations on earning a scholarship in the area and/or state EMC/FFA Wiring Contest. Your scholarship is good at the college, university or vocational institution of your choice.

To receive your scholarship, Georgia Electric Membership Corporation (Georgia EMC) must receive verification of your enrollment from the registrar's office at your school. Georgia EMC then issues a check to your school, where the fund will be administered by the financial aid office.

Please mail or email verification of enrollment to:

Gale Cutler  
Georgia EMC  
PO Box 1707  
Tucker, GA 30085-1707  
*gcutler@georgiaemc.com*

Or fax to:

Gale Cutler - (770) 270-6995

The scholarship must be used by within five years or it is forfeited.

Should a student opt to enter the military directly from high school the student should contact Georgia EMC to apprise them of this within the 5-year grace period and we will put their scholarship "on hold" until their discharge from military service.

Georgia's electric cooperatives are pleased to sponsor this program to recognize and reward the outstanding achievements of our state's young people.