

**Agricultural Grounding & Wiring Short Course** is 11 hours of instruction offered by **Michigan State University**, including some hands-on exercises and use of the National Electric Code, dealing with service grounding and bonding, supplying power to outbuildings, and special farm wiring rules.

**Dates and Locations:** The short course will be held on Tuesday, 9:00 AM to 4:00 PM and Wednesday 9:00 AM to 3:00 PM in East Lansing, August 18 & 19, 2009. The instructor are Truman Surbrook, Jonathan Althouse and Aluel Go. Exact location for each session and directions will be provided.

In-depth discussion and problem solving dealing with all aspects of grounding and bonding electrical services and grounding equipment supplied by the electrical system. Emphasis will be placed upon supplying power to outbuildings from another point on the property. When separation of feeder neutral and equipment ground wires is required and when a neutral wire is permitted to serve both purposes. Participants will learn how to change a service supplied with a 3-wire feeder over to a service supplied by a 4-wire feeder. It will be demonstrated how a 4-wire feeder to a building can reduce stray voltage levels in buildings. The purpose of an equipotential plane will be explained and installation details will be discussed. Also covered is swimming pool bonding and grounding issues 2008 NEC. Special NEC farm wiring installation requirements will also be covered. Participant Code questions will be answered as time permits.

**Examination:** There will be a one-hour examination at the end of the short course consisting of a written portion and a hands-on performance portion. A grade of 75% on the examination is considered passing.

**PA 54 Credit:** Approved for 11 hours of Technical under Public Act 54 that will apply to electrical inspector recertification. (4S, 4T, 3PR)

**Satisfactory Completion:** (1) A certificate of completion will be awarded by Michigan State University in the name of the individual electrician and employer if applicable. (2) The individual participant will be granted 1.1 Continuing Education Units by Michigan State University. (3) With permission, the name of the person completing this training and employer will be placed on a list of Agricultural Electricians on the MAEC website [www.egr.msu.edu/age/maec/](http://www.egr.msu.edu/age/maec/) that can be accessed by any person at any time.

**Course Fee:** Advanced registration is required. Cost of the course is \$290 (which includes refreshments and lunch each day).

**Cancellation Policy:** Fourteen days or more prior to seminar: full refund. Less than 14 days: \$25.00 cancellation fee. Failure to attend without canceling: no refund.

Your contact person is Barb DeLong at Michigan State University; (517) 355-4720 or Toll-Free (888) 817-8895; Fax: (517) 432-2892. Please visit us at: <http://maec.msu.edu>

**DIRECTIONS:** You will be mailed a map along with your registration confirmation.

Michigan State University is committed to providing equal opportunity for participation in all programs, services, and activities. Individuals with disabilities requiring accommodation should register with the MSU Resource Center for Persons with Disabilities well in advance of the first class meeting to ensure sufficient time for registration and arrangement of needed accommodations. Late requests received will be met when possible.

## Registration

Please enroll me in the Agricultural Grounding and Wiring Short Course at \$290.00.

Name \_\_\_\_\_

Home Address \_\_\_\_\_

City \_\_\_\_\_

Zip \_\_\_\_\_

Last four digits of SS # \_\_\_\_\_

If electrical inspector, # \_\_\_\_\_

Please indicate location:

East Lansing, August 18 & 19, 2009

Work phone ( ) \_\_\_\_\_

Home phone ( ) \_\_\_\_\_

Employer \_\_\_\_\_

Bus. Address \_\_\_\_\_

City \_\_\_\_\_

Zip \_\_\_\_\_

Email \_\_\_\_\_

**Make check payable to Michigan State University for \$290.00.** A confirmation will be sent to you prior to first class.

Send this registration form and check to:

Barb DeLong  
Michigan State University  
216 A. W. Farrall Hall  
East Lansing, MI 48824-1323

MICHIGAN STATE  
UNIVERSITY