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# CONTINUING EDUCATION FOR ELECTRICAL, POWER LIMITED, AND TEST PREPARATIONS

## Fall 2009/Spring 2010

### CUSTOM TRAINING SERVICES

Minnesota State Community and Technical College

### Journeyman and Master Electrician Prep

This course provides the experienced electrician and advanced student with an overview of the National Electrical Code, the Laws and Rules regulating licensing of Electricians, and Inspection of Electrical Installation. This course can be used in preparing for the journeyman or masters electrician exam. *Prerequisites: 30 CONE credits or experience in the electrical field.*

Dates: Fridays & Saturdays  
October 9 & 10, 2009 *or*  
June 11 & 12, 2010  
Time: 12:00 p.m.-8:00 p.m. (Fridays)  
8:00 a.m.-4:30 p.m. (Saturdays)  
Location: MSCTC-Wadena  
October 9 — Room N23 & N24  
October 10 — M33  
Presenter: Gerald Imdieke  
Fee: \$180.00

### Power Limited Refresher for Communication Workers

This 8-hour course will have approximately 4 hours covering state licensing and inspection requirements of the Minnesota Electrical Act. National Electrical Code requirements for communication circuits are also covered in this section. The course will also have 4 hours of reviewing telecommunication standards for alarm security, audio, video and data circuits. The course meets the 8 hour continuing education requirement for renewal of the Power Limited License for the State of Minnesota.

Date: Friday, November 20, 2009  
Time: 12:00 p.m.-8:00 p.m.  
Location: MSCTC-Wadena  
Room N23 & N24  
Presenters: Gerald Imdieke & Keith Hagen  
Fee: \$90.00 (NEC code book available  
for \$65.00)

### Power Limited Refresher

This course will have 8 hours of instruction covering state licensing and inspection requirements of the Minnesota Electrical Act, National Electrical Code requirements of communication circuits, power limited Class 1, 2 and 3 raceway and cable requirements and low voltage lighting systems. The course meets the 8 hour continuing education requirement for renewal of the Power Limited License for the State of Minnesota.

Date: Saturday, November 21, 2009  
Time: 8:00 a.m.-4:30 p.m.  
Location: MSCTC-Moorhead, Room B128  
Presenter: Gerald Imdieke  
Fee: \$90.00 (NEC code book available  
for \$65.00)

### National Electrical Code Calculations

This course provides the experienced electrician and apprentice with a review of many of the calculations used in the electrical industry and the 1008 National Electrical Code. Some of the calculations include: voltage, drop, box, fill, fault current, neutral current, conduit fill, overcurrent protection, PVC expansion and conductor sizing. The student should have a 2008 edition of the NEC and a calculator. This course is approved for 8 hours of continuing education by the Minnesota Department of Labor and Industry.

Dates: Friday, December 4, 2009 *or*  
Friday, January 22, 2010 *or*  
Friday, March 26, 2020  
Time: 12:00 p.m.-8:00 p.m.  
Location: MSCTC-Wadena (December 4th)  
Room N23 & N24  
MSCTC-Moorhead (January 22nd)  
Room C115  
MSCTC-Fergus Falls (March 26th)  
Room To Be Determined  
Presenter: Gerald Imdieke  
Fee: \$90.00

### CAMPUS LOCATIONS

Detroit Lakes	Fergus Falls	Moorhead	Wadena
900 Highway 34 East Detroit Lakes, MN 56501-2698 218.846.3700 800.492.4836	1414 College Way Fergus Falls, MN 56537-1000 218.736-1500 877.450.3322	1900 28 <sup>th</sup> Ave South Moorhead, MN 56560-4899 218.299-6500 800.426.5603	405 Colfax Ave SW Wadena, MN 56482-1447 218.631.7800 800.247.2007

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**CUSTOM TRAINING SERVICES**  
900 Highway 34 East  
Detroit Lakes, MN 56501  
www.cts.minnesota.edu

#### Do You have a group of employees who could benefit from the training described in this brochure?

Our on-site training services might be the right solution for you!

#### Contact

Dan Eischens  
Phone: 218.846.3765  
Cell: 218.849.0243  
Email: dan.eischens@minnesota.edu

## National Electrical Code Changes

This course provides the experienced electrician and apprentice with an overview of the most significant changes in the 2008 National Electrical Code, the Laws and Rules Regulating Licensing of Electricians and Inspection of Electrical Installation. The student should have a 2008 edition of the NEC and a calculator. This course is approved for 8 hours of continuing education by the Minnesota Department of Labor and Industry.

Dates: Saturday, December 5, 2009 *or*  
 Saturday, January 23, 2010 *or*  
 Saturday, March 27, 2010  
 Time: 8:00 a.m.-4:30 p.m.  
 Location: MSCTC-Wadena (December 5th)  
 Room M33  
 MSCTC-Moorhead (January 23rd)  
 Room C115  
 MSCTC-Fergus Falls (March 27th)  
 Room To Be Determined  
 Presenter: Gerald Imdieke  
 Fee: \$90.00

## Photovoltaic Solar Panel Code Requirements

8 hours of Electrical continuing ed. Topics to be covered include the electrical code requirements for photovoltaic solar panels. Examples will be shown on Photovoltaic Panels installed on the MSCTC Wadena Campus.

Date: Friday, March 5, 2010  
 Time: 12:00 p.m.-8:00 p.m.  
 Location: MSCTC-Wadena, Room M33  
 Presenters: Gerald Imdieke  
 Fee: \$90.00

### FOR EASY REGISTRATION USE VISA, MASTERCARD, OR DISCOVER

A member of Minnesota State Colleges and Universities.  
 An Equal Opportunity Educator / Employer

**REFUNDS:** Withdrawals must be made two days prior to the start date for a full refund.

## Photovoltaic Solar Panels

### General Information (not for CE hours)




8 hours of general education on Photovoltaic Solar Panels. Learn about the pro's and con's of installing on your personal residence. Economic payback, rebates, environmental requirements, and general solar panel education. Tour solar panels in use at MSCTC Wadena.

Date: Saturday, March 6, 2010  
 Time: 8:00 a.m.-4:30 p.m.  
 Location: MSCTC-Wadena, Room M33  
 Presenters: Gerald Imdieke  
 Fee: \$90.00

### QUESTIONS???

Call 218-846-3763 or  
 800-492-4836 ext. 3763 or  
 FAX #: 218-846-3706  
 joyce.priewe@minnesota.edu  
 www.cts.minnesota.edu

### TO REGISTER:

-  Submit form with fee by MAIL or IN PERSON
-  PHONE 218-846-3763 to use MC/VISA/Discover
-  FAX registration form and credit card information or purchase order number to 218-846-3706

Make checks payable to MSCTC-Custom Training  
**MAIL TO: MSCTC-Custom Training**  
 900 Highway 34 East  
 Detroit Lakes, MN 56501

Refunds upon request 2 days prior to class start. We reserve the right to cancel classes due to lack of enrollment. **If you need special accommodations for any activities, please notify at the time of registration.**

### CUSTOM TRAINING SERVICES

Registrations are accepted on a first-come, first-served basis. Payment is due at the time of registration.

Name: \_\_\_\_\_  
 Street Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_  
 Social Security #: \_\_\_\_\_ Birth Date: \_\_\_\_\_  
 Daytime Phone: \_\_\_\_\_ Evening Phone: \_\_\_\_\_  
 Employer: \_\_\_\_\_  
 Occupation: \_\_\_\_\_  
 E-mail: \_\_\_\_\_

- Check or money order enclosed (made payable to MSCTC-Custom Training)
- Bill my employer  
 Company Name: \_\_\_\_\_  
 Attn: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_
- VISA, MasterCard, or Discover # \_\_\_\_\_  
 Expiration date: \_\_\_\_\_ Name on card: \_\_\_\_\_  
 Signature: \_\_\_\_\_

COURSE NAME	LOCATION	START DATE	FEE