



# NORTH DAKOTA STATE ELECTRICAL BOARD

P.O. Box 7335  
 Bismarck, ND 58507-7335  
 (701) 328-9522 -  
[www.ndseb.com](http://www.ndseb.com)

Don Offerdahl, Executive Director  
 Brad Steier, Director of Inspections  
 Paula Glass, Office Manager

DECEMBER, 2010

NEWSLETTER

NO. 235

## “REPEAT” OF 2011 STATE-SPONSORED CLASSES SCHEDULED

**Deadline for**  
**Pre-Registration:**  
 Jamestown: 1/6/11  
 Bismarck: 1/6/11  
 Williston: 1/13/11  
 Minot: 1/13/11  
 Fargo: 1/20/11  
 Grand Forks:  
1/20/11  
 Dickinson: 1/27/11

CLASS INFORMATION	Fri	Sat
▶ Jamestown @ Quality Inn, Hwy. 281 S. & I-94 Registration Fee Includes Lunch: <u>\$19.00</u>	<i>Jan. 14</i>	<i>Jan. 15</i>
▶ Bismarck @ Ramkota Hotel, 800 S. 3 <sup>rd</sup> Street Registration Fee Includes Lunch: <u>\$24.75</u>	Jamestown Class	Bismarck Class
▶ Williston @ Airport Int'l Inn, 3601 2 <sup>nd</sup> Ave. W. Registration Fee Includes Lunch: <u>\$25.00</u>	<i>Jan. 21</i>	<i>Jan. 22</i>
▶ Minot @ Holiday Inn, 2200 Burdick Expy. E. Registration Fee Includes Lunch: <u>\$19.50</u>	Williston Class	Minot Class
▶ Fargo @ Ramada Plaza Suites, 1635 42 <sup>nd</sup> Street S. Registration Fee Includes Lunch: <u>\$22.50</u>	<i>Jan. 28</i>	<i>Jan. 29</i>
▶ Grand Forks @ Ramada Inn, 1205 N. 43 <sup>rd</sup> Street Registration Fee Includes Lunch: <u>\$21.25</u>	Fargo Class	Grand Forks Class
▶ Dickinson @ Grand Dakota Lodge, 532 15 <sup>th</sup> St W. Registration Fee Includes Lunch: <u>\$25.00</u>	<i>Feb. 4</i>	
	Dickinson Class	

The N.D. State Electrical Board is providing 8-hour continuing education classes in January/February, 2011 covering the “2011 National Electrical Code Analysis of Changes”. You **must** attend the entire session in order to receive credit

Online registration started December 1, 2010. Classes are limited to the facility’s capacity, so please register early. **Registrations will not be accepted at the door, by phone or e-mail.** Any registration received after the posted deadline **WILL NOT BE ACCEPTED**. Refunds will only be given if you cancel by calling (701) 328-9522 or e-mailing [electric@nd.gov](mailto:electric@nd.gov) before 5:00 p.m. the Monday before the scheduled class.

When “pre-registering” for an N.D.S.E.B. continuing education class either online or by mail, you may purchase a 2011 National Electrical Code book and/or the 2011 IAEI Analysis of Changes book. We will have your order at the check-in table the day of the class. The cost for each book is \$55.00. Please note that there will be no additional books for sale at check-in.

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## WHEN IS A BUILDING OR A FARM SHOP CONSIDERED A COMMERCIAL GARAGE?

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When you get a call to wire a farm shop, you need to ask "How are you going to use this building?" Chapter 5 of the National Electrical Code covers special occupancies. In this chapter, additional code requirements are added because of the special occupancy conditions. Is the use of this building going to be to repair or servicing motor vehicles? If this is the case, it is covered under the scope of Article 511 Commercial Garages, Repair and Storage, which states:

"The occupancies shall include locations used for service and repair operations in connection with self-propelled vehicles (including, but not limited to, passenger automobiles, buses, trucks, and tractors) in which volatile flammable liquids or flammable gases are used for fuel or power."

We are witnessing the wiring of buildings or farm shops with the intention of doing their own repair work. The reason for the requirements of Article 511 are intended to mitigate the potential for ignition capable of sparks from electrical wiring or equipment used in or above hazardous classified locations.

If a building or farm shop is used just for storage, this is covered in Article 511.3(A) Parking Garages, which states:

"Parking garages used for parking or storage shall be permitted to be unclassified."

Again, if a farm shop involves service or repair of motor vehicles, reference needs to be made to Article 511 of the National Electrical Code. Changes in your design and layout can be easily made to comply with this article.

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## CHANGES IN THE 2011 LAWS, RULES & WIRING STANDARDS OF NORTH DAKOTA

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Enclosed is the 2011 Laws, Rules and Wiring Standards of North Dakota. Please keep this book in your possession and refer to it when necessary. In making changes to our administrative rules, we try to clarify commonly asked questions and interpretations.

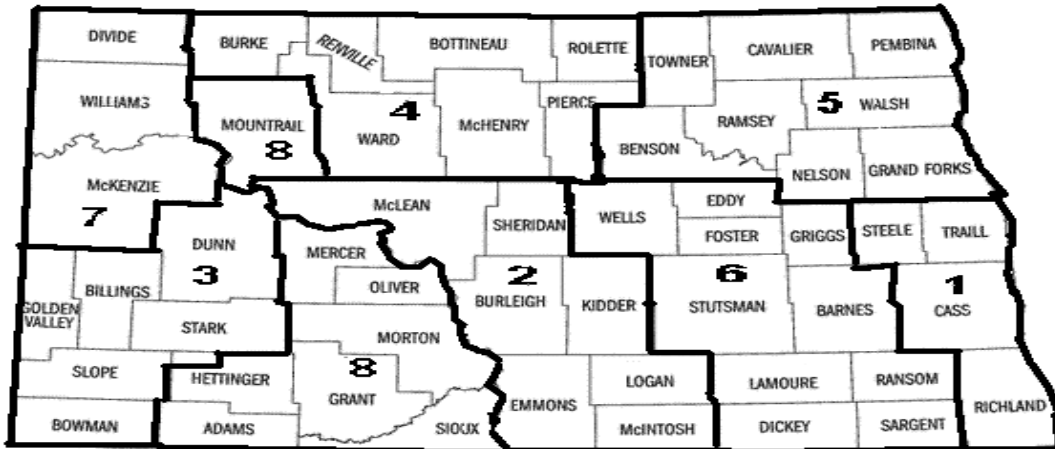
Changes to our administrative rules include:

- §24-02-01-02(1)(b). This provides the practical electrical experience gained through a contracting master electrician shall also consist of an apprentice completing an approved Bureau of Apprenticeship Training program, which the minimum standards are 8,000 hours and 576 hours of related training to qualify to take the exam.
- 24-02-01-02(1)(b)(1) & (2) & (3). This was changed to reflect wiring and eliminate the words maintaining and repairing, which credit was often duplicated when applications were received.
- §24-02-01-02(1)(e). This extends the requirement of having a picture ID card in your possession in addition to your electrician's license when doing electrical work.

- §24-02-01-03(2). This was changed to resolve the problem of receiving evaluation reports accepted by the board. Some evaluation forms do not have valid information that the Board needs to determine if an accurate and complete evaluation has been made of the equipment.
- §24-02-01-03(6). This change combines this section with 24-02-01-04 of the 2008 Wiring Standards, which adds all metal raceways requirement in this section.
- §24-02-01-03(9). This was added as it relates to the North Dakota state building code which adopted the energy code. More information will be coming from the building inspectors to have compliance with this section.
- §24-02-01-05. We have expanded the reference materials on hazardous locations to indicate that you need to use the informational notes in 500.4 of the 2011 National Electrical Code in addition to the classification of oil field installations referred to in RP 500.
- §24-02-01-07(3). This section added microwave ovens as a cooking unit, which we commonly see.
- §24-02-01-07(7). These sections shall allow use of a single receptacle in an attached or detached garage associated with a dwelling unit supplying power to a garage door opener.
- §24-02-01-07(8). Branch circuit feeders of arc-fault circuit interrupter protection shall be permitted to meet the requirements of Article 210.12.
- §24-02-01-08(3). Language was added that if there is an installation of a service disconnect outside of a structure, it needs to be within 10 feet of the structure.
- §24-02-01-08(5). Services greater than 100 amps but less than 200 amps shall have provisions for 30 full-size circuit breaker spaces.
- §24-02-01-10. This section clarifies when to bring the electrical wiring up to code in a room.
- §24-02-01-10.1. Energized electrical panels that have been submerged in water, especially during flooding conditions, need to be deenergized to prevent loss of life and property.
- §24-02-01-16.1. This section now covers smoke detectors, which basically has not been changed. This section also adds carbon monoxide detectors as required by the North Dakota building code.
- §24-02-01-19. If a master or class b electrician charges or collects from a customer an electrical inspection fee greater than the fee actually in effect, there are grounds for discipline.
- §24-02-01-19(12). This section adds out-of-state structure and skid manufacturers to send reporting forms to the North Dakota State Electrical Board for an electrical inspection.
- §24-02-01-19(14). Owners are required to notify the North Dakota State Electrical Board or the authority having jurisdiction before commencing electrical work.
- §24-02-01-22. Continuing education requirements places an emphasis on responsibilities of the provider to provide accurate attendance records, including electronic records.

## SEB Inspection Districts

The state is divided into eight districts. Each electrical inspector is assigned to a district.



EXECUTIVE DIRECTOR - DONALD OFFERDAHL  
BRAD STEIER - DIRECTOR OF INSPECTIONS

### State District Inspectors

#### District 1

Josh Wilson  
P.O. Box 575  
West Fargo, ND 58078  
(701) 400-1549  
[ndseb1@nd.gov](mailto:ndseb1@nd.gov)

#### District 2

Vernon Hertz  
P.O. Box 7335  
Bismarck, ND 58507  
(701) 328-9520  
[ndseb2@nd.gov](mailto:ndseb2@nd.gov)

#### District 3

Mitch Feininger  
P.O. Box 335  
Dickinson, ND 58602  
(701) 400-5686  
[ndseb3@nd.gov](mailto:ndseb3@nd.gov)

#### District 4

Lyle Wergeland  
P.O. Box 1746  
Minot, ND 58702  
(701) 400-3286  
[ndseb4@nd.gov](mailto:ndseb4@nd.gov)

#### District 5

Scott Halle  
1731 11<sup>th</sup> Ave. N.  
Grand Forks, ND 58203  
(701) 795-3880  
[ndseb5@nd.gov](mailto:ndseb5@nd.gov)

#### District 6

David Paul  
P.O. Box 1346  
Jamestown, ND 58402  
(701) 400-1115  
[ndseb6@nd.gov](mailto:ndseb6@nd.gov)

#### District 7

Michael Lund  
P.O. Box 347  
Williston, ND 58802  
(701) 214-2879  
[ndseb7@nd.gov](mailto:ndseb7@nd.gov)

#### District 8

Rich Wolfe  
P.O. Box 7335  
Bismarck, ND 58507  
(701) 328-9520  
[ndseb8@nd.gov](mailto:ndseb8@nd.gov)

### City Inspectors:

Fargo - Commercial	Dan Offerdahl	(701) 241-1561
Fargo - Residential	Gary Larson	(701) 476-6626
Bismarck	Tom Dwyer	(701) 355-1465
	Shawn Ouradnik	
Minot	Ross Rubbelke	(701) 857-4102
Grand Forks	Robert Kvitne	(701) 746-2637
Jamestown	(Vacant)	(701) 252-5900

# NEW LICENSES ISSUED

Examinations were conducted in Bismarck on November 15, November 22 and December 6, 2010. We had 6 individuals who took the Master exam and 16 who took the Journeyman exam. **Our congratulations to the following applicants who passed their examination and were issued a license.**

## MASTERS

*® Represents Reciprocal Licenses*

2766	Haymond, Jason	Williston, ND	2771	Howes Jr., Dennis	Fargo, ND
2767 ®	Hanson, Derek	Bemidji, MN	2772 ®	Orson, Russ	Maple Lake, MN
2768 ®	Torbert, James	Aberdeen, SD	2773 ®	Simonson, Michael	Duluth, MN
2769 ®	Meyer, Peter	Albany, MN	2774 ®	Steed, Melvin	Hildale, UT
2770	Carter, Marc	Fargo, ND	2775 ®	Brenner, Eric	Aberdeen, SD

## JOURNEYMAN

*® Represents Reciprocal Licenses*

6292 ®	Bachmeier, Tim	Laurel, MT	6313 ®	Sankey, Bill	Brooklyn Park, MN
6293	Charles, Michael	Carney, MI	6314	Schaff, Casey	Flasher, ND
6294 ®	Hedtke, Brian	St. Paul, MN	6315	Solheim, Jared	Moorhead, MN
6295 ®	McKenna, George	Evanston, WY	6316 ®	Swanson, John	Rochester, MN
6296 ®	Simonson, Kurt	Kalispell, MT	6317 ®	Wilmot, Todd	Chanhassen, MN
6297 ®	Callier Jr, Robert	Rochester, MN	6318 ®	Cotney, Brent	Grenora, ND
6298	Hood III, John	Necedah, WI	6319 ®	Green, Steve	Williston, ND
6299 ®	Rutten, Mark	Mankato, MN	6320 ®	Lappe, Ross	Havre, MT
6300 ®	Stephens, Russell	Brainerd, MN	6321 ®	Nakken, Steve	Star, ID
6301	Supry Jr., Douglas	Bismarck, ND	6322 ®	Opjorden, Christopher	Litchfield, MN
6302 ®	Ellingson, Paul	New Effington, SD	6323 ®	Thieleman, Terry	Watford City, ND
6303 ®	Gerdes, Steven	Rochester, MN	6324 ®	Anderson, Stephen	Rochester, MN
6304 ®	Koberg, Pete	Moiese, MT	6325 ®	Archer, Jason	Loveland, CO
6305	Perrin, Angela	Bismarck, ND	6326 ®	Erschens, Mark	Williston, ND
6306	Werner, Shane	Cavalier, ND	6327	Donis, Joshua	Williston, ND
6307 ®	Zens, Randy	Aberdeen, SD	6328 ®	Gaffney, Robert	Crystal, MN
6308	Duncan, Mac	Glyndon, MN	6329 ®	Lee, Donald	Fort Lupton, CO
6309 ®	Graves, Mark	Evans, CO	6330 ®	Naroditskiy, Mark	Aurora, CO
6310 ®	Roesemann, George	Loveland, CO	6331	Roppel, Nathan	Fargo, ND
6311 ®	Gilchrist, Wayne	Bozeman, MT	6332 ®	Thompson, Bue	Mandan, ND
6312 ®	Iverson, Brock	Parkers Prairie, MN	6333	Kraft, Christopher	Fargo, ND



***HAPPY HOLIDAYS FROM  
THE NORTH DAKOTA STATE  
ELECTRICAL BOARD***