

1 Board of Electricity

2

3 Adopted Permanent Rules Relating to Minimum Experience

4 Requirements for Licensure and Approval of Electrical Equipment

5

6 Rules as Adopted

7 3800.3520 EXAMINATION; MINIMUM EXPERIENCE REQUIREMENTS FOR

8 LICENSURE; EXPERIENCE ACCEPTABLE TO BOARD.

9 [For text of subps 1 and 2, see M.R.]

10 Subp. 3. **Maximum allowable credit under certain**  
11 **conditions.** The maximum allowable electrical experience credit  
12 under the following conditions shall be as stated:

13 A. before age 12, none;

14 B. before age 16, six months;

15 C. in foreign countries, 12 months; and

16 D. acquired during the school term of a

17 board-approved post high school electrical course, none.

18 Subp. 4. **Experience acceptable to board for certain**  
19 **categories in certain situations.** Experience in the categories  
20 of planning for the installation of wiring, apparatus, and  
21 equipment for light, heat, and power; laying out for the  
22 installation of wiring, apparatus, and equipment for light,  
23 heat, and power; supervising the installation of wiring,  
24 apparatus, and equipment for light, heat, and power; and wiring  
25 and installing electrical wiring, apparatus, and equipment for  
26 light, heat, and power is acceptable to the board in the  
27 situations described in items A to E.

28 [For text of items A to D, see M.R.]

29 E. Experience while performing electrical work in the  
30 armed forces of the United States which the board has determined  
31 is substantially equivalent to work performed while in the  
32 employ of a licensed electrical contractor in Minnesota. This  
33 determination shall be based on a certification by the military  
34 for the type of work performed.

35 [For text of subp 5, see M.R.]

1 3800.3620 APPROVAL OF ELECTRICAL EQUIPMENT.

2 [For text of subps 1 and 2, see M.R.]

3 Subp. 3. **Equipment exempt from listing requirements.**

4 Equipment described in items A to E is exempt from the  
5 requirements in subparts 1 and 2.

6 A. Industrial machinery as defined by Section 670-2  
7 of the National Electrical Code is not required to be listed  
8 where all electrical components of the equipment, including  
9 electrical control panels and solid-state motor controls, are in  
10 compliance with item B, C, or D, or subpart 1 or 2, and all of  
11 the machine electrical wiring is in compliance with the National  
12 Electrical Code.

13 B. Electrical equipment enclosed in a listed cabinet  
14 or box suitable for the environment in which it is installed,  
15 and electrically connected only to circuits supplied from listed  
16 Class 2, logic level, communications, or other circuits with  
17 maximum open circuit voltage of 30 volts rms AC, or DC, and  
18 overcurrent protection of eight amperes or less, or to any  
19 combination of such circuits, is not required to be listed,  
20 provided further that any printed wiring boards shall be of  
21 listed material and shall be permitted to be supplied from a  
22 ~~listed~~ labeled microcomputer power supply.

23 C. Electrical control equipment constructed according  
24 to the listed requirements and enclosed in a listed cabinet or  
25 box suitable for the environment in which it is located, where  
26 the enclosed equipment consists of eight or fewer listed  
27 components, other than wires, cables, cords, terminal  
28 assemblies, nonelectrical components, and those covered under  
29 item B, provided that the devices are not electrically connected  
30 to circuits on a printed wiring board other than those circuits  
31 covered under item B, is not required to be listed.

32 D. Custom-made electrical equipment or related  
33 installations that are designed and manufactured to a  
34 purchaser's specifications and are not marketed to the general  
35 public are exempt from listing and labeling requirements.

1 Equipment or installations exempt under this item are subject to  
2 the following:

3 (1) they must be determined to be safe for their  
4 intended use by the manufacturer on the basis of test data which  
5 the purchaser keeps and makes available to the electrical  
6 inspection authority having jurisdiction, as required by Code of  
7 Federal Regulations, title 29, part 1910.399 (1991), for  
8 equipment or installations subject to national occupational  
9 safety and health laws; or

10 (2) they must be inspected by the electrical  
11 inspection authority having jurisdiction for compliance with the  
12 construction requirements of the applicable electrical standards  
13 used by electrical testing laboratories to evaluate the  
14 equipment, or the National Electrical Code, ~~whichever is less~~  
15 **stringent**. Schematic wiring diagrams, component layout  
16 diagrams, and component electrical rating information shall be  
17 provided to enable evaluation under this subitem.

18 E. Utilization equipment as defined by the National  
19 Electrical Code is not required to be listed if:

20 (1) the equipment includes eight or fewer  
21 electrical components which are listed or are exempt from  
22 listing by item B or C; and

23 (2) all wiring that is part of the equipment is  
24 in compliance with the National Electrical Code.