



## Mike Holt's State Rating of the Electrical Industry

### POINT ASSIGNMENT

1 point for mandatory apprenticeship program  
1 point for each mandatory licensing type  
1 point for CE or PDH requirements for renewal  
-0.5 points \*Partial Adoption  
[for example government only or commercial only]  
3 points 2023 NEC  
2 points 2020 NEC  
1 point 2017 NEC  
0 points 2014 NEC  
-1 point 2011, 2008 NEC  
-2 points local city/county/municipality

YES = State-wide mandate  
NO = adopted at local levels  
A = State name  
B = Mandatory Apprenticeship program

### LEGEND

C, E, G, I = required to be state-licensed  
D, F, H, J = CEU/PDH required for license renewal  
K = NEC edition adopted state-wide  
L = explains partial adoption

M = points for this year  
N = current grade based on points  
O = change in points from last report  
P = what updated since last report

THE SCALE is F to A+ based on the following point totals

| F   | F   | F   | D   | D+  | D+  | C-  | C-  | C   | C   | C+  | C+  | B-  | B-  | B   | B   | B+  | B+  | A-   | A-   | A    | A    | A+   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| 0.0 | 1.0 | 1.5 | 2.0 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.5 | 9.0 | 9.5 | 10.0 | 10.5 | 11.0 | 11.5 | 12.0 |

|               | 2023 DETAILS |            |               |         |                |         |           |             |                            |                                  |                                                                  | HISTORICAL RANKING |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |             |                                  |                                  |
|---------------|--------------|------------|---------------|---------|----------------|---------|-----------|-------------|----------------------------|----------------------------------|------------------------------------------------------------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------|-------------|----------------------------------|----------------------------------|
| A             | B            | C          | D             | E       | F              | G       | H         | I           | J                          | K                                | L                                                                | M                  |      |      |      |      |      |      |      |      |      |      |      |      | N    | O    | P           |             |                                  |                                  |
| STATE         | APPRENTICE   | JOURNEYMAN | MASTER/CONTR. |         | PROF. ENGINEER |         | INSPECTOR |             | NEC adopted<br>*State-wide | *Partial Adoption<br>-0.5 points | 2023 points                                                      | 2007               | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 RATING | 2023 CHANGE | WHAT UPDATED SINCE LAST REPORT   |                                  |
|               | LICENSE      | LICENSE    | CEU           | LICENSE | CEU            | LICENSE | PDH       | STATE CERT. |                            |                                  |                                                                  |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |             |                                  | CEU                              |
| ALABAMA       | NO           | YES        | NO            | YES     | YES            | YES     | YES       | YES         | YES                        | 2020                             | State buildings, schoolhouses, hotels, motion picture studios    | 8.5                | D    | B-   | C-   | C-   | B-   | C+   | B-   | C+   | C+   | B    | B    | B-   | B-   | B-   | B           | +1          | 2020 NEC (2014) effective 7/1/22 |                                  |
| ALASKA        | YES          | YES        | YES           | YES     | YES            | YES     | YES       | YES         | YES                        | 2020                             | Public structures and any place of employment.                   | 10.5               | B    | B+   | A-   | A-   | A+   | A+   | A    | A    | A    | A    | A+   | A    | A    | A    | A-          | -1          |                                  |                                  |
| ARIZONA       | NO           | NO         | NO            | YES     | NO             | YES     | NO        | NO          | NO                         | Local                            |                                                                  | 0.0                | D    | D    | D    | D    | D    | F    | F    | F    | F    | F    | F    | F    | F    | F    | F           | 0           |                                  |                                  |
| ARKANSAS      | YES          | YES        | YES           | YES     | YES            | YES     | YES       | YES         | YES                        | 2020                             |                                                                  | 11.0               | A-   | A-   | A-   | A-   | A+   | A+   | A+   | A+   | A    | A+   | A+   | A    | A    | A    | A           | 0           | 2020 NEC effective 8/1/22        |                                  |
| CALIFORNIA    | YES          | YES        | YES           | YES     | YES            | YES     | NO        | YES         | YES                        | 2020                             |                                                                  | 10.0               | A-   | A-   | A-   | A-   | A-   | A-   | A-   | A-   | A-   | A-   | A-   | A-   | A-   | A-   | A-          | 0           | 2020 NEC effective 1/1/23        |                                  |
| COLORADO      | YES          | YES        | YES           | YES     | YES            | YES     | NO        | YES         | YES                        | 2023                             |                                                                  | 11.0               | B-   | B    | B    | B+   | A-   | A-   | A+   | A+   | A+   | A    | A+   | A+   | A-   | A    | A           | A           | 0                                | 2023 NEC effective 8/1/23        |
| CONNECTICUT   | YES          | YES        | YES           | YES     | YES            | YES     | NO        | YES         | YES                        | 2020                             |                                                                  | 10.0               | A-   | A-   | A-   | B+   | B+   | B+   | A-   | A-   | A-   | A-   | A    | A-   | A-   | A-   | A-          | 0           | 2020 NEC effective 10/1/22       |                                  |
| DELAWARE      | YES          | YES        | YES           | YES     | YES            | YES     | YES       | YES         | YES                        | 2020                             |                                                                  | 11.0               | A-   | B+   | A-   | A-   | A    | A    | A-   | A-   | A-   | A    | A    | A    | A-   | A-   | A+          | A           | -1                               |                                  |
| FLORIDA       | NO           | NO         | NO            | YES     | YES            | YES     | YES       | YES         | YES                        | 2020                             |                                                                  | 8.0                | B+   | B    | B+   | B    | B    | B    | B-   | B    | B    | B-   | B    | B    | B-   | B    | B           | B           | 0                                | 2020 NEC effective 12/31/23      |
| GEORGIA       | NO           | NO         | NO            | YES     | YES            | YES     | YES       | NO          | NO                         | 2020                             |                                                                  | 6.0                | B    | B    | B-   | C+   | B-   | B-   | B-   | B-   | C+   | B-   | B-   | C+   | B-   | B-   | C+          | -1          |                                  |                                  |
| HAWAII        | NO           | YES        | YES           | YES     | YES            | YES     | NO        | NO          | NO                         | 2020                             | State Building; local counties                                   | 6.5                | B-   | C+   | C    | C    | B-   | B-   | C+   | C+   | C    | C-   | C+   | B-   | C+   | C+   | C+          | 0           | 2020 NEC effective 3/14/23       |                                  |
| IDAHO         | YES          | YES        | YES           | YES     | YES            | YES     | YES       | YES         | NO                         | 2017                             |                                                                  | 9.0                | B+   | B+   | A-   | A-   | A-   | A-   | A    | A    | A    | A-   | A    | A    | A-   | A-   | A-          | B+          | -1                               |                                  |
| ILLINOIS      | NO           | NO         | NO            | NO      | NO             | YES     | YES       | YES         | NO                         | Local                            |                                                                  | 1.0                | D    | D    | D    | D+   | D+   | D+   | D    | D    | D    | F    | F    | F    | F    | F    | F           | F           | 0                                |                                  |
| INDIANA       | NO           | NO         | NO            | NO      | NO             | YES     | YES       | NO          | NO                         | 2008                             |                                                                  | 1.0                | C-   | D+   | C-   | C-   | C-   | C-   | D+   | D+   | D+   | D    | D    | D    | F    | F    | F           | F           | 0                                |                                  |
| IOWA          | YES          | YES        | YES           | YES     | YES            | YES     | YES       | YES         | YES                        | 2020                             |                                                                  | 11.0               | D    | B+   | A    | A    | A+   | A+   | A    | A+   | A+   | A    | A+   | A+   | A    | A+   | A           | -1          |                                  |                                  |
| KANSAS        | NO           | NO         | NO            | NO      | NO             | YES     | YES       | NO          | NO                         | Local                            |                                                                  | 0.0                | C-   | D+   | D    | D    | D    | D    | F    | F    | F    | F    | F    | F    | F    | F    | F           | 0           |                                  |                                  |
| KENTUCKY      | NO           | YES        | YES           | YES     | YES            | YES     | YES       | YES         | YES                        | 2017                             |                                                                  | 9.0                | A-   | A-   | A    | A-   | A    | A    | A    | A    | A-   | A-   | A    | A-   | A-   | A-   | B+          | -1          |                                  |                                  |
| LOUISIANA     | NO           | NO         | NO            | YES     | YES            | YES     | YES       | NO          | NO                         | 2020                             |                                                                  | 6.0                | C    | C+   | B-   | C+   | B-   | B-   | C+   | C+   | C+   | C    | C+   | C+   | C    | C    | C           | C+          | +1                               | 2020 NEC (2014) Effective 1/1/23 |
| MAINE         | YES          | YES        | YES           | YES     | YES            | YES     | YES       | YES         | YES                        | 2020                             |                                                                  | 11.0               | A    | A    | A    | A    | A+   | A+   | A+   | A+   | A    | A+   | A+   | A    | A    | A    | A+          | A           | -1                               |                                  |
| MARYLAND      | NO           | NO         | NO            | YES     | YES            | YES     | YES       | YES         | NO                         | 2020                             | State buildings, schoolhouses, hotels, motion picture studios    | 6.5                | D+   | D    | C-   | C-   | C-   | C+   | C    | C    | C+   | C    | C    | C    | C+   | C+   | C+          | C+          | 0                                | 2020 NEC effective 5/29/23       |
| MASSACHUSETTS | NO           | YES        | YES           | YES     | YES            | YES     | NO        | YES         | YES                        | 2023                             |                                                                  | 10.0               | B+   | B+   | A-   | A-   | A-   | A-   | A-   | A-   | A-   | A-   | A-   | A-   | A-   | A-   | A-          | 0           | 2023 NEC effective 2/17/23       |                                  |
| MICHIGAN      | YES          | YES        | YES           | YES     | YES            | YES     | YES       | YES         | YES                        | 2017                             | Adoption covers everything other than 1- and 2-family dwellings. | 9.5                | A-   | A-   | A    | A-   | A-   | A-   | A    | A+   | A+   | A    | A    | A+   | A    | A    | A           | B+          | -2                               |                                  |
| MINNESOTA     | YES          | YES        | YES           | YES     | YES            | YES     | YES       | YES         | YES                        | 2023                             |                                                                  | 12.0               | A+   | B+   | A+   | A+   | A+   | A+   | A+   | A+   | A+   | A+   | A+   | A    | A+   | A+   | A+          | 0           | 2023 NEC effective 7/1/23        |                                  |
| MISSISSIPPI   | NO           | NO         | NO            | YES     | NO             | YES     | YES       | NO          | NO                         | Local                            |                                                                  | 1.0                | D+   | D+   | D+   | D+   | D+   | D    | D    | D    | F    | F    | F    | F    | F    | F    | F           | 0           |                                  |                                  |

|                | 2023 DETAILS |            |     |               |     |                |     |                |     |                                       |                                                              | HISTORICAL RANKING |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                |                              |                                      |  |  |  |  |
|----------------|--------------|------------|-----|---------------|-----|----------------|-----|----------------|-----|---------------------------------------|--------------------------------------------------------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------|------------------------------|--------------------------------------|--|--|--|--|
| A              | B            | C          | D   | E             | F   | G              | H   | I              | J   | K                                     | L                                                            | M                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      | N    | O              | P                            |                                      |  |  |  |  |
| STATE          | APPRENTICE   | JOURNEYMAN |     | MASTER/CONTR. |     | PROF. ENGINEER |     | INSPECTOR      |     | NEC<br>adopte<br>d<br>*State-<br>wide | *Partial Adoption<br>-0.5 points                             | 2023<br>points     | 2007 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023<br>RATING | 2023<br>CHANGE               | WHAT UPDATED<br>SINCE LAST<br>REPORT |  |  |  |  |
|                | LICENSE      | LICENSE    | CEU | LICENSE       | CEU | LICENSE        | PDH | STATE<br>CERT. | CEU |                                       |                                                              |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                |                              |                                      |  |  |  |  |
| MISSOURI       | NO           | NO         | NO  | NO            | NO  | YES            | YES | NO             | NO  | Local                                 |                                                              | 0.0                | D+   | D    | D    | D    | D    | D    | F    | F    | F    | F    | F    | F    | F    | F    | F    | F              | 0                            |                                      |  |  |  |  |
| MONTANA        | YES          | YES        | YES | YES           | YES | YES            | YES | YES            | NO  | 2020                                  |                                                              | 10.0               | B    | B    | B    | A-   | A    | A    | A    | A    | A    | A-   | A-   | A-   | B+   | A-   | A-   | A-             | 0                            | 2020 NEC effective<br>6/11/22        |  |  |  |  |
| NEBRASKA       | YES          | YES        | YES | YES           | YES | YES            | YES | YES            | YES | 2017                                  |                                                              | 10.0               | B+   | B    | A-   | A    | A    | A    | A+   | A+   | A+   | A    | A+   | A+   | A    | A    | A    | A-             | -1                           |                                      |  |  |  |  |
| NEVADA         | NO           | NO         | NO  | YES           | NO  | YES            | YES | YES            | NO  | Local                                 |                                                              | 2.0                | D+   | C-   | C-   | D+   | D+   | D+   | D    | D    | D    | F    | F    | F    | F    | D    | D    | D              | 0                            |                                      |  |  |  |  |
| NEW HAMPSHIRE  | YES          | YES        | YES | YES           | YES | YES            | YES | NO             | NO  | 2020                                  |                                                              | 9.0                | A-   | A-   | A-   | A-   | A-   | A-   | A-   | A-   | B+   | A-   | A-   | B+   | B+   | B+   | B+   | B+             | 0                            | 2020 NEC effective<br>7/1/22         |  |  |  |  |
| NEW JERSEY     | NO           | YES        | YES | YES           | YES | YES            | YES | YES            | YES | 2020                                  |                                                              | 10.0               | B+   | B+   | A-   | A-   | A    | A    | A-   | A-   | A-   | A-   | A-   | A-   | A-   | A-   | A-   | A-             | 0                            | 2020 NEC effective<br>9/6/22         |  |  |  |  |
| NEW MEXICO     | NO           | YES        | YES | YES           | YES | YES            | YES | YES            | NO  | 2020                                  |                                                              | 9.0                | B+   | B+   | B+   | B+   | A-   | A-   | A-   | A-   | A-   | B+   | A-   | A-   | B+   | B+   | B+   | B+             | 0                            | 2020 NEC effective<br>3/28/23        |  |  |  |  |
| NEW YORK       | NO           | NO         | NO  | NO            | NO  | YES            | YES | YES            | YES | 2017                                  |                                                              | 5.0                | D+   | D+   | D+   | C-   | C-   | C-   | D+   | D+   | D+   | C-   | C+   | C+   | C    | C+   | C+   | C              | -1                           |                                      |  |  |  |  |
| NORTH CAROLINA | NO           | NO         | NO  | YES           | YES | YES            | YES | YES            | YES | 2020                                  |                                                              | 8.0                | A    | A    | A    | B    | B+   | B+   | B    | B    | B    | B    | B+   | B+   | B    | B    | B+   | B              | -1                           |                                      |  |  |  |  |
| NORTH DAKOTA   | YES          | YES        | YES | YES           | YES | YES            | YES | YES            | YES | 2020                                  |                                                              | 11.0               | A+   | A+   | A+   | A+   | A+   | A+   | A+   | A+   | A+   | A    | A+   | A+   | A    | A+   | A+   | A              | -1                           |                                      |  |  |  |  |
| OHIO           | NO           | NO         | NO  | YES           | YES | YES            | YES | YES            | YES | 2017                                  |                                                              | 7.0                | A-   | A-   | B+   | B    | B+   | B+   | B    | B+   | B+   | B-   | B    | B    | B-   | B-   | B-   | B-             | -1                           |                                      |  |  |  |  |
| OKLAHOMA       | YES          | YES        | YES | YES           | YES | YES            | YES | YES            | YES | 2020                                  | Commercial Building only                                     | 10.5               | A+   | A    | A+   | A    | A+   | A+   | A    | A    | A    | A-   | A-   | A-   | B+   | B+   | A-   | A-             | 0                            | 2020 NEC effective<br>9/14/22        |  |  |  |  |
| OREGON         | YES          | YES        | YES | YES           | YES | YES            | YES | YES            | YES | 2020                                  |                                                              | 11.0               | A+   | A+   | A+   | A+   | A+   | A+   | A+   | A+   | A+   | A    | A+   | A+   | A    | A+   | A+   | A              | -1                           |                                      |  |  |  |  |
| PENNSYLVANIA   | NO           | NO         | NO  | NO            | NO  | YES            | YES | YES            | YES | 2017                                  |                                                              | 5.0                | C    | C-   | C    | C    | C+   | C+   | C    | C    | C    | C-   | C+   | C+   | C    | C    | C+   | C              | -1                           |                                      |  |  |  |  |
| RHODE ISLAND   | NO           | YES        | YES | YES           | YES | YES            | NO  | YES            | YES | 2020                                  |                                                              | 9.0                | A-   | A-   | A-   | A-   | A-   | A-   | A-   | A-   | B+   | B+   | B+   | B+   | B+   | A-   | B+   | -1             |                              |                                      |  |  |  |  |
| SOUTH CAROLINA | NO           | NO         | NO  | YES           | NO  | YES            | YES | YES            | YES | 2020                                  |                                                              | 7.0                | B-   | B-   | B    | B-   | B-   | B-   | B-   | B-   | B-   | B-   | B-   | B-   | B-   | B-   | B-   | 0              | 2020 NEC effective<br>1/1/23 |                                      |  |  |  |  |
| SOUTH DAKOTA   | YES          | YES        | YES | YES           | YES | YES            | YES | YES            | YES | 2020                                  |                                                              | 11.0               | A    | A+   | A+   | A+   | A+   | A+   | A+   | A+   | A    | A+   | A+   | A    | A+   | A+   | A    | -1             |                              |                                      |  |  |  |  |
| TENNESSEE      | NO           | YES        | NO  | YES           | NO  | YES            | YES | YES            | YES | 2017                                  |                                                              | 7.0                | B    | B    | B    | B-   | B    | B    | B-   | B-   | C+   | C    | B    | B    | B-   | B-   | B-   | B-             | -1                           |                                      |  |  |  |  |
| TEXAS          | YES          | YES        | YES | YES           | YES | YES            | YES | NO             | NO  | 2023                                  |                                                              | 10.0               | B+   | B+   | A-   | A-   | A-   | A-   | A-   | A-   | B+   | A-   | A-   | B+   | A-   | A-   | A-   | 0              | 2023 NEC effective<br>9/1/23 |                                      |  |  |  |  |
| UTAH           | YES          | YES        | YES | YES           | YES | YES            | YES | YES            | YES | 2020                                  | Commercial building only; one- and 2- fam. on 2014           | 10.5               | A    | A    | A    | A-   | A+   | A+   | A    | A    | A    | A    | A    | A-   | A-   | A    | A-   | -1             |                              |                                      |  |  |  |  |
| VERMONT        | NO           | YES        | YES | YES           | YES | YES            | YES | YES            | NO  | 2020                                  |                                                              | 9.0                | B-   | B    | B+   | A-   | A-   | A-   | A-   | A-   | B+   | A-   | A-   | B+   | B+   | A-   | B+   | -1             |                              |                                      |  |  |  |  |
| VIRGINIA       | NO           | YES        | YES | YES           | YES | YES            | YES | YES            | YES | 2017                                  |                                                              | 9.0                | B+   | A-   | A-   | A-   | A-   | A-   | A-   | A-   | B+   | B+   | A-   | B+   | B+   | A-   | B+   | -1             |                              |                                      |  |  |  |  |
| WASHINGTON     | YES          | YES        | YES | YES           | YES | YES            | NO  | YES            | YES | 2020                                  |                                                              | 10.0               | A-   | A    | A    | A-   | A-   | A-   | A    | A    | A    | A-   | A    | A    | A    | A    | A    | A-             | -1                           |                                      |  |  |  |  |
| WEST VIRGINIA  | NO           | YES        | NO  | YES           | NO  | YES            | YES | YES            | YES | 2020                                  |                                                              | 8.0                | B    | B    | B+   | B    | B    | B    | B    | B    | B    | B    | B    | B    | B    | B    | B+   | B              | -1                           |                                      |  |  |  |  |
| WISCONSIN      | NO           | YES        | YES | YES           | YES | YES            | YES | YES            | YES | 2017                                  | Commercial Building only; one- and two-fam. Planned for 2020 | 8.5                | C+   | B+   | A-   | C    | A-   | A-   | A-   | A-   | B+   | A-   | A-   | B+   | B+   | B+   | B    | -1             |                              |                                      |  |  |  |  |
| WYOMING        | YES          | YES        | YES | YES           | YES | YES            | YES | YES            | YES | 2023                                  |                                                              | 12.0               | A    | A    | A+   | A+   | A+   | A+   | A+   | A+   | A    | A+   | A+   | A    | A+   | A+   | A+   | 0              | 2023 NEC Effective<br>7/1/23 |                                      |  |  |  |  |