

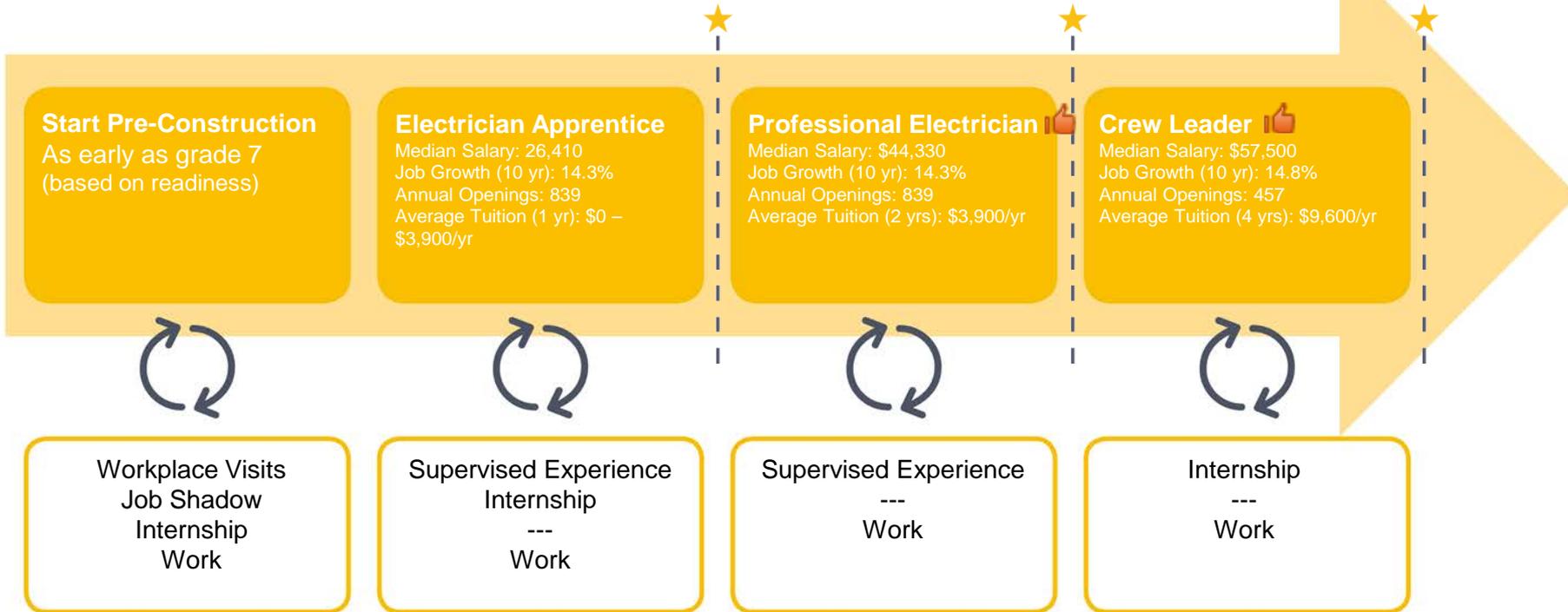


# Construction Technologies Career Pathway

Apprenticeship

Associate Degree,  
Skilled Trades

Bachelor's Degree,  
Operations Management



Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

**Preparing students for multiple options after high school:**  
gainful employment and/or postsecondary study.

Ohio In-demand Occupations

Data reflects 2014 Ohio labor statistics and public institutions of higher education for 2013-2014. For specific tuition costs, visit [ohiohighered.org](http://ohiohighered.org).



# Construction Technologies Career Pathway

Secondary Pathway: **Mechanical, Electrical and Plumbing**

Postsecondary Program: **Electrical Trades**

## An Example of Courses with Secondary and Postsecondary Credits

|               |                        |                             |                                     |                            |                           |                                 |   |                                 |                 |
|---------------|------------------------|-----------------------------|-------------------------------------|----------------------------|---------------------------|---------------------------------|---|---------------------------------|-----------------|
| Secondary     | 7<br>8                 | English I                   | Algebra I                           | Physical Science           | Social Studies            | Fine Arts                       | Core & Sustainable Construction         |                                 |                 |
|               | 9<br>10                | English II                  | Geometry                            | Biology                    | World History             | Health (.5)<br>PE (.5)          | Mechanical, Electrical, & Plumbing Sys. | Construction Electrical Systems | World Languages |
|               | 11                     | English III                 | Algebra II                          | Chemistry                  | U.S. History              | Commercial & Industrial Systems | World Languages                         |                                 |                 |
|               | 12                     | English IV                  | Trigonometry/<br>Calculus           | Environmental Science      | U.S. Government           | Alternative Power Generation    | Construction Safety & Leadership        |                                 |                 |
| Postsecondary | Year 1<br>1st Semester | English Composition I       | College Algebra                     | Industrial Computing       | CAD                       | Industrial Electricity I        |   |                                 |                 |
|               | Year 1<br>2nd Semester | English Composition II      | Trigonometry                        | Industrial Wiring          | Hydraulics I              | Industrial Electricity II       | Environmental Science                   |                                 |                 |
|               | Year 2<br>1st Semester | Interpersonal Communication | HVAC I                              | Industrial Electronics     | Motors & Controls         | Programmable Controller I       |   |                                 |                 |
|               | Year 2<br>2nd Semester | Psychology                  | Electrical Prints & Troubleshooting | Instrumentation & Controls | Industrial Fluid Power II | Robotics                        | Hydraulics II                           |                                 |                 |

### High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

### Required Courses

### Recommended Electives

Visit [education.ohio.gov/CareerConnections](http://education.ohio.gov/CareerConnections) for reference information.

Course titles and sequences will vary between schools.

11/2014