

**Mikron Facts:**

Mikron is a Swiss based company that values apprentices and apprenticeship programs. Mikron Denver’s apprenticeship program is U.S. Department of Labor approved and has been in operation since 2016.

Mikron Denver is a precision manufacturing company that manufactures high tech, automated assembly lines used in the production of extremely complex devices.

Industries using Mikron machines include medical device, pharmaceutical, electrical/industrial, automotive and consumer goods.

**Mikron Industrial Electrician Apprenticeship Details:**

The Industrial Electrician apprenticeship provides opportunities and training to become an electrician who works on complex manufacturing machines and equipment.

Upon completion of either program, apprentices are awarded a nationally recognized certification.

## Mikron Apprenticeship Facts

1. Apprenticeships allow you to learn while getting paid.
2. Gain industry recognized qualifications.
3. Gain hands on experience in fields such as pneumatics, mechatronics, and automation.
4. Attend college classes without paying tuition.

## Apprenticeship Facts

1. Since 2012, over 2 million apprentices have registered with the D.O.L.
2. 396,000 apprentices have completed their program in the last 5 years
3. 14,700 new apprenticeship programs have been created in the last 5 years
4. Nationwide, as of Sept. 2021, there were over 593,000 apprentices in the workforce
5. As of December 2021, Colorado has 5,540 active apprentices and 2,647 new apprentices

### Industrial Electrician Pre-Apprenticeship Activities:

During the summer between the junior and senior year of high school, students must apply for a position in the paid summer internship program.

Of the summer internship participants, two interns will be selected to participate in the formal apprenticeship program, beginning August 2024.

The Summer Internship program runs from June 3, 2024, to July 12, 2024. (Dates are subject to change.)

Interns are required to work three days per week and must be present for the entire session.

Workdays are Tuesday, Wednesday, and Thursday.



### Industrial Electrician Activities

1. Reading and interpreting specifications and blueprints.
2. Install electrical services ranging from 480 volts AC to 24 volts DC.
3. Perform installation of wires, cables, drive motors, VFD's, sensors and encoders.
4. Performs installation, repair, and/or design modification of high-tech distributed manufacturing and industrial process control systems

### Requirements / Program Details – Industrial Electrician Apprenticeship

1. Students must have completed the summer internship and be invited to join the apprenticeship program. (Internship between Junior and Senior year in high school.)
2. During the apprentice's senior year of high school, they must be able to work on site at least 2 afternoons per week.
3. Applicants must have at least a 2.0 G.P.A.
4. Students must provide their own transportation to and from Mikron.
5. Apprentices must enroll for college / university coursework for the Fall semester of the first academic year following high school graduation.

#### Contact Information:

If you have any questions,  
please email Ross Ericson at:

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**Education and Training – Industrial Electrician Apprenticeship**

1. Apprentices must complete 28 credits to complete the apprenticeship
2. All required courses are offered by Arapahoe Community College.
3. Mikron Denver pays for all tuition costs

**Required courses for the Industrial Electrician Apprenticeship**

<b>Arapahoe Community College / Mikron</b>					
<b>Industrial Electrician Apprenticeship</b>					
Course Title	Course Code	Course Credits	Content Hours	Pre-Req. Course(s)	Pre-Req. Course(s)
Electrical Print Reading	EIC 1001	4	90	None	
Fundamentals of DC/AC	ELT 1206	4	90	None	
Industrial Wiring	ELT 2254	3	67.5	EIC 1001	ELT 1206
Motors and Controls	ELT 2252	3	67.5	ELT 1206	
Automation Control Circuits	ELT 2348	3	67.5	ELT 1206	
Programmable Logic Controllers	ELT 2358	3	67.5	ELT 1206	ELT2252
Advanced Programmable Logic Controllers	ELT 2359	3	67.5	ELT 2358	
	Total Credits	23	517.5		