



**Career & Workforce Education**

**Automation Department Advisory Meeting Minutes**

**Date Meeting Held: October 16, 2025, 6:00 PM on Zoom**

**Attendees:**

**Bridgette Hernandez, Dean, Career & Workforce Education**

**Edwardo, Galeana, Perkins, Strong Workforce, and Special Programs**

**Oyekunle Oyeyipo, Manufacturing Engineer, Eaton Corp**

**Heng Chua, Manufacturing Engineer, Northrop Grumman Corp**

**Marco Tringali, STEM instructor at Options For Youth**

**David Gonzales, Technical Advisor**

**Hector Lopez, Division Secretary and Admin Assistant**

Dean Hernandez called the meeting to order at about 6:05 PM.

Each attendee made introductions.

A quorum was determined, and the meeting proceeded.

A PowerPoint presentation (attached) containing agenda items was shared on Zoom.

An agenda (attached) was also available.

The meeting focused on the High Road Training Partnership (H RTP) grant awarded to Rio Hondo College (RHC) by the Los Angeles County Department of Economic Opportunity and how the project is based on the new Automation degree program at RHC.

Dean Hernandez emphasized that the Automation program was new and that the college was recruiting and onboarding new part-time faculty to teach the courses.

The program aims to prepare students for high-demand careers in industrial automation, robotics, and advanced manufacturing. The curriculum includes foundational courses such as engineering graphics and technical writing, as well as advanced courses in PLCs and robotics.

The H RTP program targets 40 participants, with a minimum placement requirement of 30. The team discussed the need for adequate lab equipment and the importance of industry partnerships for the program's work experience component.

### **Program Overview and Curriculum Details**

- Bridgette Hernandez provided an overview of the automation program, which aims to prepare students for high-demand careers in industrial automation, robotics, and advanced manufacturing.
- The core curriculum includes foundational courses like automation 101, shop safety, technical writing, and engineering graphics.
- Advanced courses cover topics like DC and AC fundamentals, PLCs, mechanical systems, fluid systems, and robotics.
- The program includes on-the-job training (OJT) to provide real-world application through industry partnerships.
- The program courses were presented, and a motion was made to remove ATMN 110 (Engineering Graphics with SolidWorks) as a prerequisite for ATMN 115 (Print Reading with GD&T). This change will provide students with greater flexibility in course sequencing and reduce barriers to program completion.
  - The motion to approve the certificate was provided by Oye and seconded by Heng. Dean Hernandez asked for those in favor to state “Yes” or “Aye” and those opposed to state “No.” There were no abstentions. All votes were in favor, and the motion was carried.
- General discussions about the courses, classroom/lab, and equipment were discussed.

### **Labor Market Analysis and Program Justification**

- A labor market analysis was presented as published by the Centers of Excellence, highlighting the demand for automation skills and the need for the program.
- The analysis shows that the typical wage for entry-level electromechanical technicians is \$28.09 per hour, meeting the living wage criteria.
- There is a decline in the workforce, with 31% of the workforce being 55 years or older, indicating a need for new talent.
- The program aims to address the supply gap by providing qualified technicians to meet industry demands.

### **Advisory Committee Approval for Certificate of Achievement**

- David Gonzales requests advisory committee approval for a new certificate of achievement in Automation technology. The approval is necessary to justify the program and to seek state approval to award degrees/certificates.
- The certificate will validate students' mastery of essential automation skills and enhance their employability.
- The motion to approve the certificate was provided by Marco and seconded by Oye. Dean Hernandez asked for those in favor to state “Yes” or “Aye” and those opposed to state “No.” There were no abstentions. All votes were in favor, and the motion was unanimously approved.

### **H RTP Project and Industry Partnerships**

- Bridgette Hernandez explains the H RTP project, which includes pre-apprenticeship training and industry partnerships.
- The goal is to train 40 participants as industry machinery mechanics, with a minimum requirement of 30 placements.
- Industry partners include LISI Aerospace, LaFell Manufacturing, and contingency employers like Danone Foods and Reyes Coca-Cola Bowling Company.
- The Work Experience course (Automation 290) will involve students training at work sites under employer mentors.

### **Classroom and Lab Facilities**

- Bridgette Hernandez and David Gonzales discuss the classroom and lab facilities, emphasizing the need for adequate equipment.
- The lab includes equipment from Festo, such as AC DC learning systems and hydraulic control technology.
- David stresses the importance of having enough equipment to support 24 students in the spring semester.
- The team is encouraged to assess the equipment needs and provide feedback to ensure the lab is well-equipped

## Closing Remarks and Next Steps

- Bridgette Hernandez thanks the team for their participation and emphasizes the importance of the program.
- The team is reminded to follow up on any outstanding items, such as equipment needs and textbook availability.
- The meeting concludes with a commitment to provide any necessary support and guidance for the upcoming semester.
- The course changes to ATMN 115 will occur in the spring 2026 semester. Until the change is made, faculty will need to process pre-requisite waivers for students who need the ATMN 115 course but do not meet the Pre-Req.
- Dean Hernandez will proceed with the certificate approval process through LARC. Approval is expected in the spring of 2026.

A motion to adjourn was requested by Dean Hernandez and brought forward by Oye, and seconded by Heng. A vote to adjourn was taken and unanimously approved.

Dean Hernandez thanked all who attended.

The meeting was adjourned at 7:06 PM.

Attachments:

PowerPoint Presentation

Agenda

LMI Report on Mechatronics from the Los Angeles Center of Excellence, January 2025



**Automation Program Advisory**

**Thursday, October 16, 2025**

**6:00 – 7:00 PM on Zoom**

**Invited attendees:**

- Bridgette Hernandez, Dean, Career & Workforce Education
- Eduardo Coronel,
- Heng Chua,
- Edwardo, Galeana, Perkins, Strong Workforce, and Special Programs
- Marco Tringali,
- Christopher Hirunthanacorn, Cal State University, Long Beach
- Chi Yeung Chiu,
- Oyekunle Oyeyipo
- David Gonzales, Guest

**Agenda**

- 1) Automation (ATMN) Program Overview
  - a. ATMN 101 - Introduction to Automation Applications - Units: 3
  - b. ATMN 102 - Shop Safety and Measurements - Units: 2
  - c. ATMN 105 - Technical Writing and Communication - Units: 2
  - d. ATMN 110 - Engineering Graphics with SolidWorks - Units: 3
  - e. ATMN 115 - Print Reading with GD&T - Units: 2
    - i. Prerequisite: ATMN 110
  - f. ATMN 120 - DC and AC Fundamentals - Units: 3
  - g. ATMN 125 - Basic Programmable Logic Controllers - Units: 2
    - i. ATMN 120
    - ii. ATMN 130 - Mechanical Systems - Units: 2
    - iii. Advisory (Recommended Pre-req): ATMN 102
  - h. ATMN 135 - Fluid Systems - Units: 2
    - i. Advisory (Recommended Pre-req): ATMN 102
  - i. ATMN 140 - Introduction to Robotics and Programming - Units: 2
    - i. Advisory (Recommended Pre-req): ATMN 102
  - j. ATMN 290 – Work Experience
  
  - k. Recommendation – Remove ATMN 110 as a Prerequisite for ATMN 115.

- i. Motion to approve?
- ii. 2<sup>nd</sup>?
- iii. Vote

2) Labor Market Data Review – Mechatronics

- a. <https://coecc.net/los-angeles/2025/02/electrical-electronic-and-electro-mechanical-drafting/>

3) Certification of Achievement – Need approval

- a. Motion to approve?
- b. 2<sup>ND</sup> Motion?

4) High Roads Training Partnership (HTRP) Project

- a. Design and deliver pre-apprenticeship training for 40 participants as Industry Machinery Mechanics
  - 1. We will be targeting 50 enrollments
  - 2. Some students will be English learners who will have assistive (language) technologies and possibly academic aids.
- ii. Specialized training for aerospace & defense industry careers
  - 1. Alternative placement in food processing
- iii. Minimum 30 trainees placed at partner employers upon program completion
- b. Industry Partners
  - i. LISI Aerospace – 3 locations
    - 1. City Of Industry – fastener manufacturing
    - 2. Garden Grove – general machining of fittings and related items
    - 3. Torrance – fastener manufacturing
  - ii. LeFiell Manufacturing – deep-drawing and complex assemblies
    - 1. Santa Fe Springs
  - iii. Additional (contingency) employers
    - 1. Danon Foods \_ Downey
    - 2. Reyes Coca-Cola Bottling – Santa Fe Springs

5) Automation Classroom/Lab

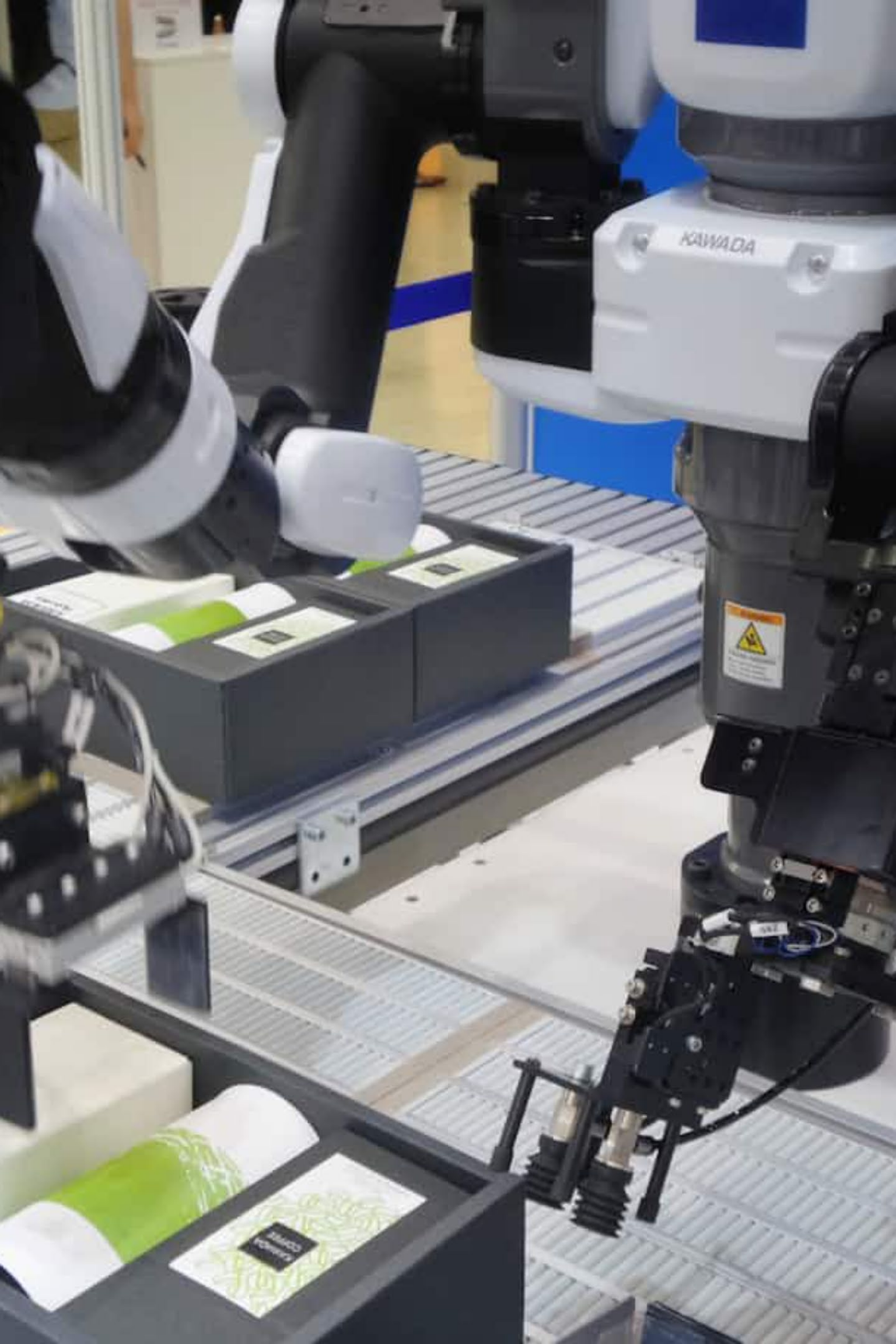
- a. 1 fully dedicated and equipped lecture/lab space
  - i. 1 Mechanical Drive system
  - ii. 2 Hydraulic motor stands

- iii. 1 Automation system
- iv. A list of other equipment will be distributed to this committee

- 6) Equipment Needs
  - a. Committee input for program needs
- 7) Open Discussion
- 8) Review Action Items
- 9) Adjourn

Minutes will be published and distributed.

Thank you!



**RÍO HONDO  
COLLEGE**

**Dept of Career & Workforce Education**

**Automation Program Advisory**

Thursday, October 16, 2025 | 6:00 – 7:00 PM on Zoom



**RÍO HONDO  
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# Welcome & Introductions

Bridgette Hernandez, Dean, Career & Workforce Education



# Automation Program Overview

Our comprehensive automation curriculum prepares students for high-demand careers in industrial automation, robotics, and advanced manufacturing. The program combines foundational technical skills with hands-on experience in cutting-edge automation technologies.

01

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## Foundation Courses

Introduction to Automation Applications, Shop Safety, Technical Writing

02

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## Technical Skills

Engineering Graphics, Print Reading, DC/AC Fundamentals

03

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## Advanced Systems

PLCs, Mechanical Systems, Fluid Systems, Robotics

04

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## Work Experience

Real-world application through industry partnerships



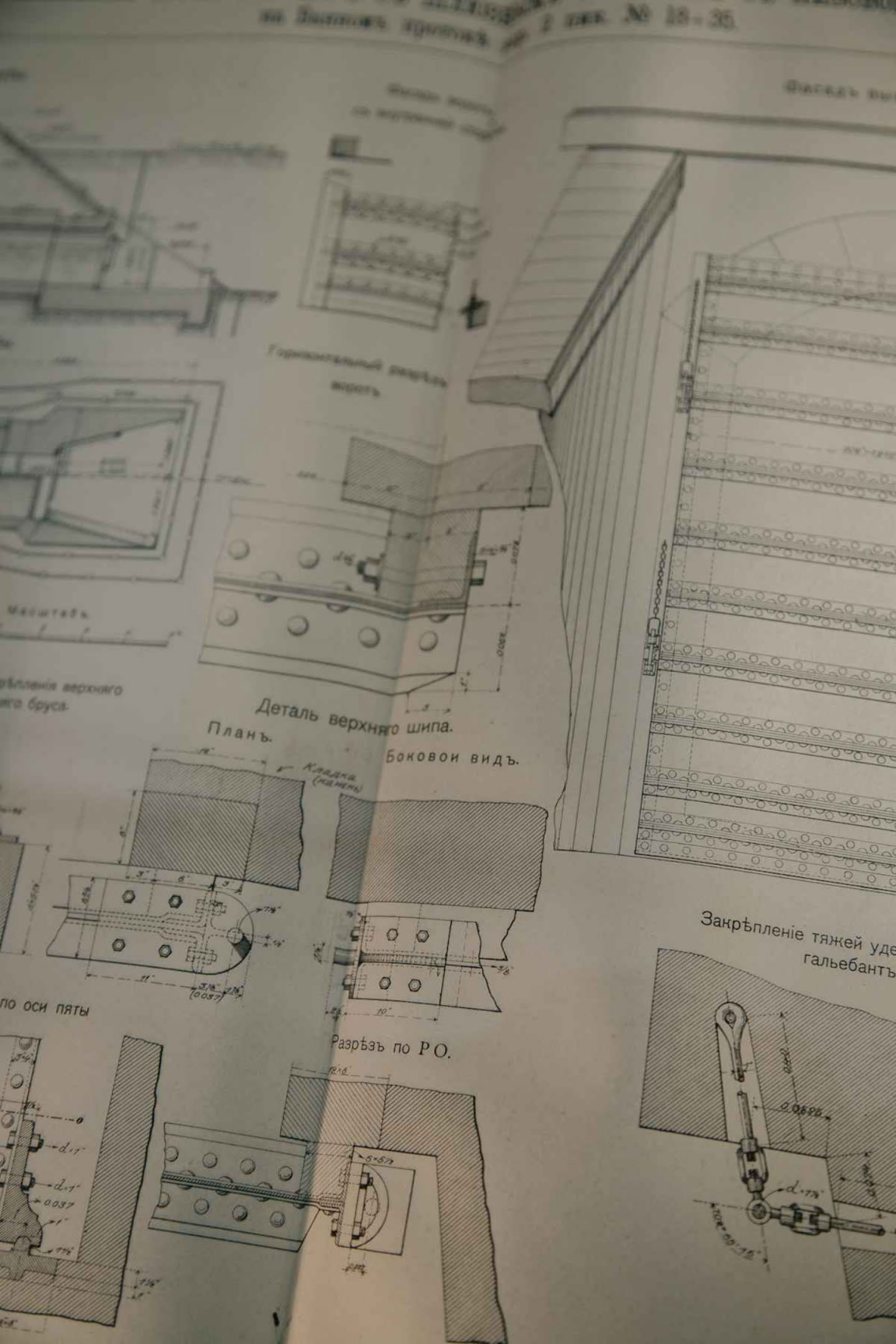
# Core Curriculum Details

## Foundational Courses

- ATMN 101- Introduction to Automation Applications (3 units)
- ATMN 102 - Shop Safety and Measurements (2 units)
- ATMN 105 - Technical Writing and Communication (2 units)
- ATMN 110- Engineering Graphics with SolidWorks (3 units)
- ATMN 115- Print Reading with GD&T (2 units)
  - Pre-Req: ATMN 110

## Advanced Technical Courses

- ATMN 120 - DC and AC Fundamentals (3 units)
- ATMN 125 - Basic Programmable Logic Controllers (2 units)
- ATMN 130 - Mechanical Systems (2 units)
- ATMN 135 - Fluid Systems (2 units)
- ATMN 140 - Introduction to Robotics and Programming (2 units)
- ATMN 290 - Work Experience





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# Curriculum Recommendation

## Proposed Change

Remove ATMN 110 (Engineering Graphics with SolidWorks) as a prerequisite for ATMN 115 (Print Reading with GD&T). This change will provide students with greater flexibility in course sequencing and reduce barriers to program completion.

01

Motion to Approve

02

Second Motion

03

Vote

# Labor Market Information (LMI)



**COE** | CENTER OF EXCELLENCE FOR LABOR MARKET RESEARCH | LOS ANGELES

**Labor Market Analysis:**  
**0953.30 – Electrical, Electronic and Electro-Mechanical Drafting**  
***Electromechanical Instrumentation, Maintenance and Repair –***  
***Certificate requiring 8 to fewer than 16 semester units***  
Los Angeles Center of Excellence, January 2025

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<b>Program Endorsement:</b>	<b>Endorsed:</b> All Criteria Met <input checked="" type="checkbox"/>	<b>Endorsed:</b> Some Criteria Met <input type="checkbox"/>	<b>Not</b> Endorsed <input type="checkbox"/>
<b>Program Endorsement Criteria</b>			
<b>Supply Gap:</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Living Wage:</b> (Entry-Level, 25 <sup>th</sup> )	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Education:</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Emerging Occupation(s)</b>			
Yes <input type="checkbox"/>		No <input checked="" type="checkbox"/>	

Click on the link below for the full report

<https://coecc.net/los-angeles/2025/02/electrical-electronic-and-electro-mechanical-drafting/>



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# Certificate of Achievement/AS Degree

We are seeking advisory committee approval for our new Certificate of Achievement in Automation Technology. This credential validates student mastery of essential automation skills and enhances their employability in the manufacturing and industrial sectors.

Motion to Approve Certificate

Second Motion

Committee Vote





# High Roads Training Partnership Project

Our HTRP project will design and deliver pre -apprenticeship training for 40 participants as Industry Machinery Mechanics, with specialized training for aerospace and defense industry careers. We're targeting 50 enrollments to mitigate attrition, with support for English learners through assistive technologies and academic aids.

50

Target Enrollments

To ensure 40 program completions

40

Trained Participants

Industry Machinery Mechanics

30

Minimum Placements

At partner employers upon completion



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# Industry Partners

Our program partners with leading aerospace, defense, and manufacturing companies to provide real direct pathways to employment.

-world training opportunities and



## LISI Aerospace

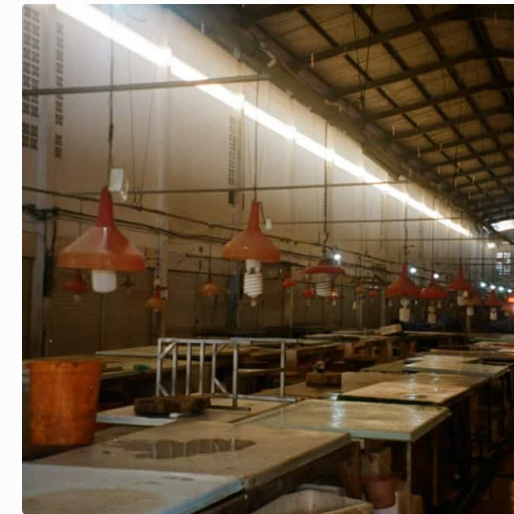
### 3 Locations:

City of Industry (fastener manufacturing),  
Garden Grove (general machining),  
Torrance (fastener manufacturing)



## LeFiell Manufacturing

Santa Fe Springs: Deep-drawing and  
complex assemblies



## Contingency Employers

### Alternative Placements:

Dannon Foods (Downey),  
Reyes Coca-Cola Bottling Co (Santa Fe  
Springs)

# Automation Classroom & Lab Facilities

Our dedicated lecture and lab space provides students with hands-on experience using industry-standard equipment and systems. This comprehensive facility ensures students gain practical skills that directly translate to workplace success.



## Mechanical Drive System

1 fully equipped mechanical drive training station



## Hydraulic Systems

2 hydraulic motor training stands



## Automation System

1 complete automation training system



## Additional Equipment

Comprehensive tooling and specialized training equipment





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# Next Steps & Closing



## Equipment Needs

Committee input for additional program requirements



## Open Discussion

Questions and feedback from advisory members



## Review Action Items

Confirm decisions and next steps

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Minutes will be published and distributed following the meeting.

Thank you for your participation and commitment to excellence in automation education!



## Labor Market Analysis:

### 0953.30 – Electrical, Electronic and Electro-Mechanical Drafting

### *Electromechanical Instrumentation, Maintenance and Repair –*

*Certificate requiring 8 to fewer than 16 semester units*

Los Angeles Center of Excellence, January 2025

<b>Program Endorsement:</b>	<b>Endorsed: All Criteria Met</b> <input checked="" type="checkbox"/>	<b>Endorsed: Some Criteria Met</b> <input type="checkbox"/>	<b>Not Endorsed</b> <input type="checkbox"/>
<b>Program Endorsement Criteria</b>			
<b>Supply Gap:</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Living Wage: (Entry-Level, 25<sup>th</sup>)</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Education:</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Emerging Occupation(s)</b>			
Yes <input type="checkbox"/>		No <input checked="" type="checkbox"/>	

## SUMMARY

This report analyzes whether local labor market demand is being met by community college programs aligned with the identified middle-skill occupation<sup>1</sup> or whether a shortage of workers exists. Labor market demand is measured by annual job openings while education supply is measured by the number of awards (degrees and certificates) conferred on average each year.

Based on the available data, there appears to be a supply gap for the one identified middle-skill occupation in the region. Furthermore, entry-level wages exceed the self-sufficiency standard wage in both Los Angeles and Orange counties, and the Bureau of Labor Statistics (BLS) lists an associate degree as the typical entry-level education.

**Recommendation:** Due to all three program endorsement criteria being met, the Los Angeles Center of Excellence for Labor Market Research (LA COE) endorses this proposed program.

## Key Findings

### Supply Gap

- 46 annual job openings are projected in the region through 2028. This number is greater than the three-year average of 4 awards conferred by educational institutions in the region.

<sup>1</sup> Middle-skill occupations typically require some postsecondary education, but less than a bachelor’s degree. The COE classifies middle-skill jobs as the following:

- All occupations that require an educational requirement of some college, associate degree or apprenticeship;
- All occupations that require a bachelor’s degree, but also have more than one-third of their existing labor force with an educational attainment of some college or associate degree; or
- All occupations that require a high school diploma or equivalent or no formal education, but also require short- to long-term on-the-job training where multiple community colleges have existing programs.

### **Living Wage**

- \$28.09 is the typical entry-level hourly wages for *electro-mechanical and mechatronics technologists and technicians*, which is higher than Los Angeles County’s self-sufficiency standard hourly (\$24.03/hour).<sup>2</sup>

### **Educational Attainment**

- An associate degree is the typical entry-level education for *electro-mechanical and mechatronics technologists and technicians*, according to the Bureau of Labor Statistics (BLS).
- 50% of workers in the field have completed some college or an associate degree, according to national educational attainment data.

### **Community college supply**

- 1 community college issued awards related to electro-mechanical technology in the greater LA/OC region.
- 4 awards (degrees and certificates) were conferred on average each year between 2021 and 2023.

### **Other postsecondary supply**

- No educational institutions in the LA/OC region have conferred sub-baccalaureate awards in programs related to electro-mechanical technology over the past three years.

## **TARGET OCCUPATION**

LA COE prepared this report to provide regional labor market and postsecondary supply data related to one middle-skill occupation:

- ***Electro-Mechanical and Mechatronics Technologists and Technicians (17-3024)*** Operate, test, maintain, or adjust unmanned, automated, servomechanical, or electromechanical equipment. May operate unmanned submarines, aircraft, or other equipment to observe or record visual information at sites such as oil rigs, crop fields, buildings, or for similar infrastructure, deep ocean exploration, or hazardous waste removal. May assist engineers in testing and designing robotics equipment.<sup>3</sup>

## **OCCUPATIONAL DEMAND**

Exhibit 1 shows the five-year occupational demand projections for *electro-mechanical and mechatronics technologists and technicians*. In the greater Los Angeles/Orange County region, the number of jobs related to this occupation is projected to decrease by 5% through 2028. However, there will be nearly 50 job openings per year through 2028 due to retirements and workers leaving the field. The majority of jobs in 2023 for *electro-mechanical and mechatronics technologists and technicians* (65%) were located in Los Angeles County.

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<sup>2</sup> Center for Women’s Welfare, University of Washington. (2024). *The self-sufficiency standard for California 2024*. <http://selfsufficiencystandard.org/California>.

<sup>3</sup> [Electro-Mechanical and Mechatronics Technologists and Technicians \(bls.gov\)](https://www.bls.gov/occupations/electromechanical-and-mechatronics-technologists-and-technicians)

## Exhibit 1: Current employment and occupational demand, Los Angeles and Orange counties<sup>4</sup>

Geography	2023 Jobs	2028 Jobs	2023-2028 Change	2023-2028 % Change	Annual Openings
Los Angeles	343	321	(22)	(6%)	30
Orange	182	179	(3)	(1%)	16
<b>Total</b>	<b>525</b>	<b>500</b>	<b>(24)</b>	<b>(5%)</b>	<b>46</b>

### Detailed Occupation Data

Exhibit 2 displays the current employment and projected occupational demand for the target occupation in Los Angeles County. Positive scores for automation resilience<sup>5</sup> reflect a lower-than-average threat of the occupation(s) being replaced by automation, while negative scores reflect a greater-than-average risk of automation. The average percentage of workers aged 55+ across all occupations in the Los Angeles/Orange County region is 26%; occupations with a larger share of workers aged 55 and older typically have greater replacement needs to offset the amount of impending retirements.

## Exhibit 2: Detailed employment and occupational demand, Los Angeles County<sup>6</sup>

Occupation	2023 Jobs	2028 Jobs	5-Yr % Change	Annual Openings	Auto-mation Resilience	% Aged 55 and older	% Full Time Workers
Electro-Mechanical and Mechatronics Technologists and Technicians	343	321	(6%)	30	(5.7)	31%	Data unavail.

## WAGES

The labor market endorsement in this report considers the entry-level hourly wages for *electro-mechanical and mechatronics technologists and technicians* in Los Angeles County as they relate to the county's self-sufficiency standard wage. Orange County wages are included below in order to provide a complete analysis of the greater Los Angeles/Orange County region.

### Los Angeles County

The typical entry-level hourly wages for *electro-mechanical and mechatronics technologists and technicians* are \$28.09, which is above the self-sufficiency standard wage for one adult (\$24.03 in Los Angeles County). Experienced workers can expect to earn wages of \$46.34 (Exhibit 3).

<sup>4</sup> Five-year change represents new job additions to the workforce. Annual openings include new jobs and replacement jobs that result from retirements and separations.

<sup>5</sup> Automation risk is calculated based on the percentage of time spent on high-risk compared to low-risk work, the number of high-risk jobs in compatible occupations, and the overall industry automation risk.

<sup>6</sup> Five-year change represents new job additions to the workforce. Annual openings include new jobs and replacement jobs that result from retirements and separations.

### Exhibit 3: Earnings for occupations in Los Angeles County

Occupation	Entry-Level Hourly Earnings (25 <sup>th</sup> Percentile)	Median Hourly Earnings	Experienced Hourly Earnings (75 <sup>th</sup> Percentile)	Median Annual Earnings*
Electro-Mechanical and Mechatronics Technologists and Technicians	\$28.09	\$37.99	\$46.34	\$79,000

\*Rounded to the nearest \$100

### Orange County

The typical entry-level hourly wages for *electro-mechanical and mechatronics technologists and technicians* are \$29.05, which is above the self-sufficiency standard wage for one adult (\$27.13 in Orange County). Experienced workers can expect to earn wages of \$47.82 (Exhibit 4).

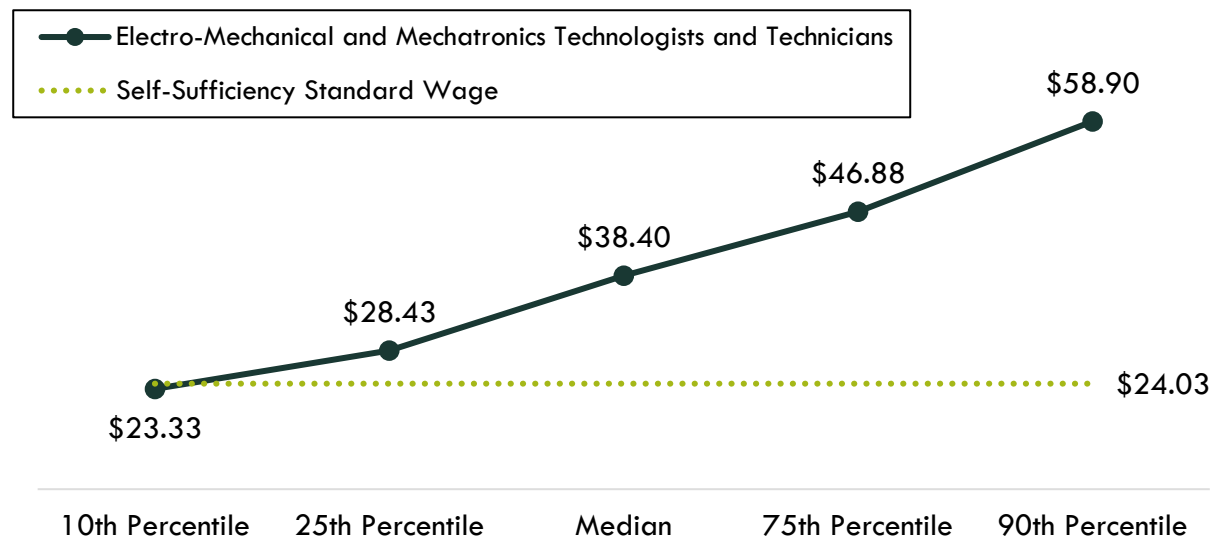
### Exhibit 4: Earnings for occupations in Orange County

Occupation	Entry-Level Hourly Earnings (25 <sup>th</sup> Percentile)	Median Hourly Earnings	Experienced Hourly Earnings (75 <sup>th</sup> Percentile)	Median Annual Earnings*
Electro-Mechanical and Mechatronics Technologists and Technicians	\$29.05	\$39.24	\$47.82	\$81,600

\*Rounded to the nearest \$100

Across the greater Los Angeles and Orange County region, the average entry-level hourly earnings for the occupation in this report are \$28.43; this is above the living wage for one single adult in Los Angeles County (\$24.03). Exhibit 5 shows the average hourly wage for the occupation in this report, for entry-level to experienced workers.

### Exhibit 5: Average hourly earnings for electro-mechanical and mechatronics technologists and technicians, Los Angeles and Orange counties



## JOB POSTINGS

There were 83 online job postings for *electro-mechanical and mechatronics technologists and technicians* listed in the past 12 months in Los Angeles and Orange counties. Job postings were analyzed for the most common job titles, skills, and employers associated with the target occupations in this report (Exhibit 6).

### Exhibit 6: Most commonly requested job titles, skills and employers in job postings, Los Angeles and Orange counties

Top Job Titles	Top Skills	Top Employers
<ul style="list-style-type: none"> <li>• Electromechanical technicians</li> <li>• Mechatronics technicians</li> <li>• Robot technicians</li> <li>• Robotics technicians</li> <li>• Field application specialists</li> </ul>	<ul style="list-style-type: none"> <li>• Robotics</li> <li>• Electronics</li> <li>• Mechatronics</li> <li>• Preventative maintenance</li> <li>• Safety Standards</li> </ul>	<ul style="list-style-type: none"> <li>• Cushman &amp; Wakefield</li> <li>• Amazon</li> <li>• CBRE</li> <li>• Jobot*</li> <li>• SpaceX</li> <li>• ATS Automation*</li> </ul>

\*Staffing company

In the greater Los Angeles/Orange County region, 65% of the *electro-mechanical and mechatronics technologist and technician* job postings listed a minimum educational requirement. Exhibit 8 details the number and percentage of job postings by educational level.

### Exhibit 8: Education levels requested in job postings for electro-mechanical and mechatronics technologists and technicians, Los Angeles and Orange counties

Education Level	Job Postings	% of Job Postings
Bachelor's degree	8	15%
Associate degree	8	15%
High school diploma or vocational training	38	70%

## EDUCATIONAL ATTAINMENT

The Bureau of Labor Statistics (BLS) lists an associate degree as the typical entry-level education for *electro-mechanical and mechatronics technologists and technicians* (Exhibit 9). Furthermore, the national-level data indicates 50% of workers in the field have completed some college or an associate degree as their highest level of educational attainment. The Bureau of Labor Statistics (BLS) lists the following typical entry-level education levels for the occupations in this report:

### Exhibit 9: Entry-level education preferred by employers nationally, Bureau of Labor Statistics

Occupation	Education Level
<i>Electro-Mechanical and Mechatronics Technologists and Technicians</i>	Associate degree

## EDUCATIONAL SUPPLY

### Community College Supply

Exhibit 9 shows the annual and three-year average number of awards conferred by community colleges in programs that have historically trained for the occupation of interest. The only college with completions in the region over the past three years is Santa Ana. Currently, there are no programs in the region under the related TOP Code:

- Electrical, Electronic, and Electro-Mechanical Drafting (0953.30)

In the past three years, there were no other postsecondary institutions in the greater LA/OC region that conferred sub-baccalaureate awards in programs that train for *electro-mechanical and mechatronics technologists and technicians*.

**Exhibit 9: Regional community college awards (certificates and degrees), 2021-2023**

TOP Code	Program	College	2020-21 Awards	2021-22 Awards	2022-23 Awards	3-Year Average
0935.00	Electro-Mechanical Technology	Santa Ana	-	4	8	4
		<b>OC Subtotal</b>	-	<b>4</b>	<b>8</b>	<b>4</b>
<b>Supply Total/Average</b>			-	<b>4</b>	<b>8</b>	<b>4</b>

**Contact information:**

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*If for any reason this document is not accessible or if you have specific needs for readability, please contact us and we will do our utmost to accommodate you with a modified version.*



POWERED BY



**DATA SOURCES**

- O\*NET Online
- Lightcast (formerly Emsi)
- Bureau of Labor Statistics (BLS)
- California Employment Development Department, Labor Market Information Division, OES
- California Community Colleges Chancellor's Office Management Information Systems (MIS)
- Self-Sufficiency Standard at the Center for Women's Welfare, University of Washington
- Chancellor's Office Curriculum Inventory (COCI 2.0)

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