## Sector Strategies Employer-Led Collaborations

### July 10, 2023

Michigan Department of Labor & Economic Opportunity (LEO) Employment & Training

# DTE WORKFORCE

MICHICAN DEPARTMENT OF LABOR & ECONOMIC OPPORTUNITY

EMPLOYMENT & TRAINING

### Agenda

- Welcome
- LEO Overview
- Sector Strategies and Employer-Led Collaboratives
- Michigan Energy Workforce Development Consortium
- Michigan Electric Vehicle Jobs Academy
- Questions and Answers

### **Presenters:**

Deb Lyzenga, Division Administrator Industry Engagement Workforce Development Michigan Department of Labor and Economic Opportunity

**Deborah Majeski**, Manager Center of Excellence Workforce Development DTE Energy

Michelle Ureste, Executive Director Workforce Intelligence Network for Southeast Michigan (WIN)



### Who is LEO Employment & Training?



#### **Bureau of Services for Blind**

**Persons (BSBP)** believes in the capacity of people who are blind or visually impaired to achieve employment and independence, providing training and other services that empower people to achieve their individual goals.



### Michigan Rehabilitation Services (MRS) provides specialized employment and education-related services and training to assist teens and adults with disabilities in becoming employed, advancing in, or retaining employment.

### WORKFORCE DEVELOPMENT

### Workforce Development (WD)

supports a demand driven workforce system, assists the structurally unemployed with financial independence, advocates for the integration of workforce development into the K-12 school system, and supports the alignment of workforce development with economic development efforts.

### Sector Strategies Employer-Led Collaboratives Purpose

- Michigan Department of Labor and Economic Opportunity, Workforce Development (LEO-WD) supports high-demand industry clusters and the development of ELCs throughout Michigan
- ELCs bring together employers, education and training institutions, workforce development organizations, and other applicable partners such as economic development organizations, labor unions and government to formulate solutions to fill identified talent gaps

## **Alignment with LEO Operational Plan**

The Sector Strategies Employer-Led Collaborative initiative is designed to meet the key objectives of LEO's operational plan:

- Upskilling Michiganders and leveraging resources that lead to postsecondary credentials
- Partnering with Michigan Works! network to grow the middle class by assisting with barrier removal
- Closing equity gaps by intentional and strategic engagement of underrepresented populations
- Providing assistance with tuition and supportive services to ensure successful outcomes
- Increasing employment opportunities for individuals attaining a postsecondary credential that is identified as critical by the ELC

### Employer-Led Collaboratives & Sector Strategies (formally known as Michigan Industry Cluster Approach)

Supporting the needs of industries & regions









Agriculture

Energy

Healthcare

Construction



Hospitality and Outdoor Recreation



Information Technology



Mobility



Manufacturing

Michigan.gov/MICA

### **Employer-Led Collaboratives**

- ELCs are identified as a national best practice.
- Competitive realities of today's economy call for a next level of business engagement and greater program alignment across economic development, workforce development and education
- Call-to-action for private/public partners to work collaboratively determining how to strategically develop, train, and retain a skilled workforce meeting the talent needs of key industries in Michigan
- Neutral organization acting as a facilitator to mobilize employers and partners
  - Demand Planning Identification of projected high-demand occupations and job openings
  - o Identification of competencies, credentials and other hiring requirements
  - o Talent Flow Analysis to identify talent sources
  - o Implementation of ELC-identified solutions
  - Evaluation and continuous improvement of ELC metrics and sustainability plans

### **Going PRO Talent Fund**

- Awards to employers to assist in training, developing and retaining current and newly hired employees
- Flexible & responsive training that results in a credential, certificate or degree
- Over \$217M Awarded

### Talent Fund Outcomes (2014-2022)

6,016

awards granted to date

\$36,149 average award amount 170,000 workers trained \$1,198

average training cost per person

9%

average hourly wage increase for workers

Michigan.gov/TalentFund



#### **Benefits to Employers**

- Immediately fills job openings with motivated workers
- Starts a rapid transfer of knowledge from current to future high-value workers
- Provides fexible, customized training to ensure workers develop the right skills
- Reduces turnover: 94% of apprentices stay with the employer after graduation
- Improves access to state and federal resources for talent development
- Fosters a diverse and inclusive workplace

### **Registered Apprenticeship Resources**

- Registered Apprenticeship benefits job seekers and businesses
- Expanding and supporting youth apprenticeship
- Registered Apprenticeship supports Sixty by 30
- Reimbursement funding can be braided with Going Pro Talent Funds
- Streamlined process to launch a program
- Michigan Apprenticeship Advisory Board
- Contact a Michigan Works! Apprenticeship Success Coordinator to get started

## **Virtual Job Fairs**

- Save time & money
  - Less money on in-person event items
  - o Less time out of office
  - o Less money on travel costs
- See job seekers at-a-glance
- Access available job seekers, including UIA claimants & Pure Michigan Talent Connect users
- Platform now supports in-person hiring events



### **Adult Education**



- Assist adults to become literate and obtain the knowledge and skills for postsecondary education, employment and economic self-sufficiency
- Assist immigrants and English language learners in improving their English proficiency
- Support employers by providing workplace literacy and remediation services on-site to upskill current workers

### **Vocational Rehabilitation**

- Office of Federal Contract Compliance Programs (OFCCP) requirements for federal contractors
  - o Documentation
  - Data collection & analysis

Reasonable Accommodation Consultation

Assistive Technology

Universal Design & Ergonomic Consultation

Disability Awareness Training

Supportive Services for Targeted Populations

Michigan.gov/BackToWork

### **MI Tri-Share Child Care**



MI Tri-Share

Cost of employee's childcare is shared equally

o Employee

o Employer

• State of Michigan

- Remove barriers
- Provide financial relief
- Attract & retain talent

Michigan.gov/MWC/Initiatives/MI-Tri-Share-Child-Care

### Workforce Development 2022 At-a-Glance

People Employed	99,855
Individuals Served	221,149
Businesses Served	2,391
People Earning Industry-Recognized Credentials	20,188
People Trained	545,376

Employer-Led Collaboratives Identified60







## Energy Careers Statistics

• More than 7 million people work in energy

 Michigan's energy industry accounts for more than 116,000 energy-related careers with total demand projected to increase by 7.5 percent between 2020 and 2030

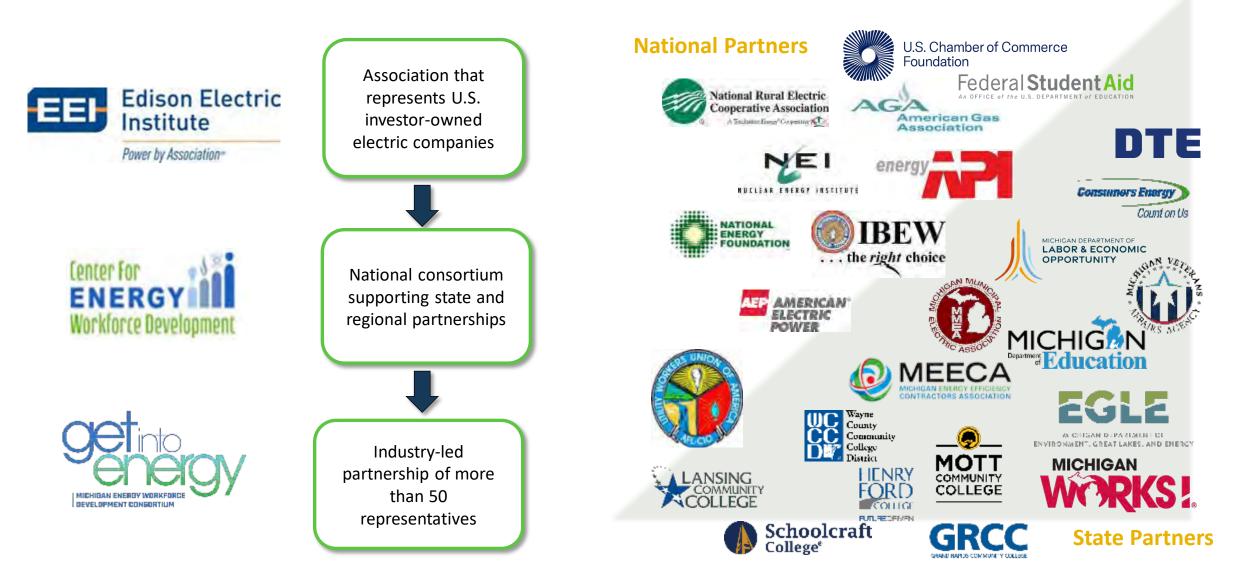
DID YOU 😸 KNOW?

- As of today, energy companies across the US have 11,724 job openings
- Energy jobs pay 34 percent higher, on average, than the national median hourly wage
- Energy accounts for 4.8 of the Gross Domestic Product of the United States





## **MEWDC Partnership Development**



## Why An Energy Cluster?





- In 2016 MEWDC obtained Michigan's Board of Education adoption of a 17th career cluster in Energy
- Energy jobs tend to get hidden in other clusters, such as Architecture and Construction
- By integrating an Energy career cluster, there is an increased awareness among secondary and post-secondary students of the knowledge and skill sets required for energy jobs
- With the importance of our country's clean energy future, it's important to have a cluster that focuses on the job growth expansion and impending retirements
- Supports statewide goal to raise the percentage of Michigan adults with a post-secondary credential to 60% by 2030

### State of Michigan Key Occupations in Energy Cluster and Projected Annual Openings

Key Occupation	Cluster Employment	Michigan Employment	Cluster Wage Range	Annual Openings
Construction Laborers	2,640	21,850	\$14-\$22	3,340
Control & Valve Installers and Repairers	1,100	1,760	\$22-\$39	120
Cost Estimators	1,040	6,640	\$22-\$39	710
Electrical & Electronics Repairers, Powerhouse, Substation, Relay	1,460	1,550	\$35-\$48	100
Electrical Engineers	1,640	10,280	\$33-\$50	780
Electrical Powerline Installers & Repairers	3,980	4,260	\$29-\$45	420
Electricians	14,750	22,780	\$20-\$35	2,580
1st-Line Supv. of Construction Trades/Extraction work	2,390	11,550	\$24-\$38	1,410
1st-Line Supv. of Mechanics, Installers, Repairers	1,710	14,680	\$24-\$41	1,380
Heating, AC, Refrigeration Mechanics/Installers	6,540	8,970	\$17-\$29	1,020
Logisticians	1,530	8,000	\$27-\$48	820
Plumbers, Pipefitters, Steamfitters	7,520	12,250	\$22-\$36	1,620
Power Plant Operators	1,470	1,720	\$32-\$46	160
Refuse and Recyclable Material Collectors	1,790	4,400	\$16-\$22	550
Sheet Metal Workers	1,510	3,210	\$19-\$32	420



Top 15 key occupations in the energy cluster in this table



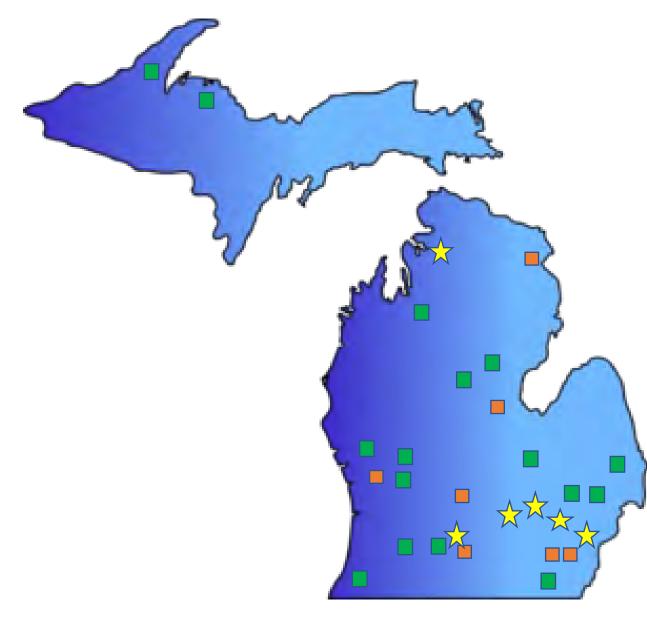
Determined by two criteria: share of the cluster's total employment and share of the state's employment for that occupation



Volume of these jobs in the cluster is large, representative of the average wage and demand for the cluster

Sources: 2019 Energy Cluster Publication: Cluster employment, Michigan employment, and Wage range: Occupational Employment Statistics, Michigan Bureau of Labor Market Information and Strategic Initiatives (2017); Annual Openings: Long-term Occupational Projections (2016–2026), Michigan Bureau of Labor Market Information and Strategic Initiatives; Typical Education and Training: Bureau of Labor Statistics; Michigan's Occupational Supply and Demand and the Talent Gap: Linskey, Evan. 2018. "An Analysis of Occupational Supply and Demand in the Michigan Labor Market." Michigan's Labor Market News, Vol. 74, Issue 10.

## **Energy Education Programs in Michigan**





- Active High School/Career and Technical Education Energy Programs with Energy Industry Fundamentals (EIF):
  - Boyne City High School
  - Hartland High School
  - Oakland Schools Technical Campus (OSTC) Northwest (Clarkston)
  - Oakland Schools Technical Campus (OSTC) Southeast (Royal Oak)
  - Parma Western High School
  - Randolph Career & Technical Center (launching in fall of 2023)
  - Post-Secondary Energy Programs with EIF:
  - Alpena Community College
  - Grand Rapids Community College
  - Henry Ford College
  - Jackson Community College
  - Lansing Community College
  - MIAT College of Technology
  - Mott Community College

Post-Secondary Energy Programs without EIF

## Energy Education Long-Term Strategy: Henry Ford College, Power and Trades Pathways Program



**Available Tuition Support to Eligible Students** 



- Provides certificate and associate degree training graduates for indemand occupations in electric operations, gas operations, construction, and engineering
- Average Enrollments per year in both programs: 180
- Completions since 2018: 352 graduates
- 2022 surveyed graduates on employments status, based on respondents 88% are employed
- Program includes test taking preparation for apprenticeship opportunities and hands on learning lab activities involving industry experts
- More information: <u>hfcc.edu/power-trades-pathways</u>
- Articulation agreements established with Oakland Technical Campus and Hartland High School Career and Technical Education Energy programs
- 2022 Finalist 23rd Annual Citizens Award through the U.S. Chamber of Commerce Foundation for the Best Commitment to Education Program

### Grand Rapids Community College Energy Trades Pathway Program

#### **Project Purpose**

- Increase diversity
- Build a recognized standard foundational training program that benefits multiple industries
- Increase qualified talent to successfully find employment in the energy sector
- Develop a stackable credential certificate program that focuses on common core curricula within indemand skilled trade job disciplines in West Michigan
- In West Michigan there is a projection of over 1500 job opportunities in the next five years
- The in-demand jobs opportunities are in gas operations, heavy equipment operation, electric operations, and line clearance tree trim
- Target to start Fall 2023

#### **Collaborative Partners**

**Consumers Energy** 

DTE Energy

**Energy Sciences** 

Grand Rapids Community College

Holland Board of Public Works (HBPW)

Infrasource

Kent ISD / Kent Career Tech Center

Lewis Tree Service

Muskegon Community College

West MI Works

#### **Available Tuition Support to Eligible Students**









### Energy Education Programs in Michigan Long-Term Strategy: Career and Technical Education (CTE) Energy Program

- The CTE Energy Program provides a broad understanding of the electric and natural gas utility industry and the energy generation, transmission, and distribution infrastructure which forms the backbone of the industry
- Program benefits:
  - Articulation agreement with HFC for students who want to pursue the Power & Trades Pathways program
  - Energy career exploration
  - Internship opportunities
  - Line Clearance Tree Trimming Exposure
- DTE endorses the following CTE Energy programs:
  - Hartland High School
  - Oakland Schools Technical Campus (OSTC) Southeast in Royal
     Oak
  - OSTC Northwest Campus in Clarkston
  - Randolph Career & Technical High School (Launching Fall 2023)



Pole yard donation at OSTC-SE, Spring 2021

## Short-Term Strategy: Readiness Workshop Components, Benefits

### **Benefits of Readiness Workshops**

- Help candidates successfully navigate through the application process
- Prepare candidates for the Edison Electric Institute test, targeted selection interview and physical assessments
- Directed outreach efforts positively impacted the increase in diversity candiates for many job roles

#### Creating Diversity Through Workforce Readiness Workshops

 DTE Energy leveraged Talent Pipeline Management® strategies to identify and address talent gaps in their company and industry







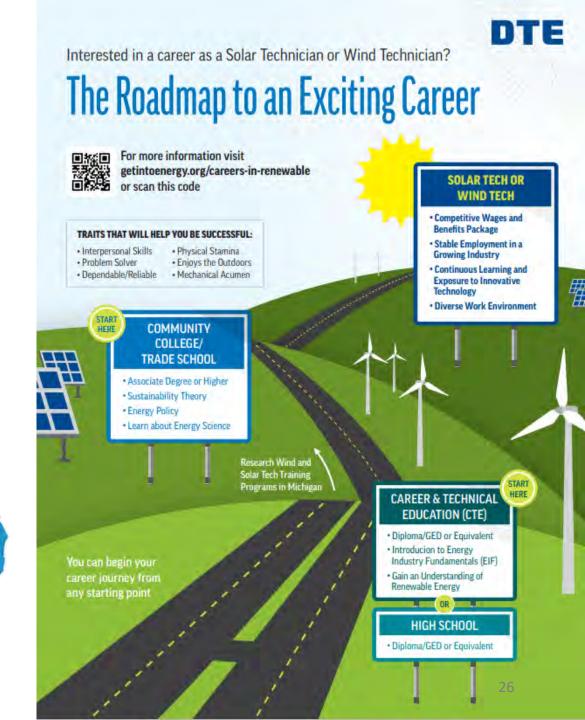
Workshop Components	Provider		
Edison Electric Institute (EEI) Test Preparation	Education Partner		
STAR Interview Method	Education Partner		
Physical Assessment Preparation	DTE		
Learning Labs	DTE		

### Solar and Renewable Energy Programs and Pathways

DTE Electric Service Area DTE Gas Service Area Overlapping Gas & Electric Service Area

Post-Secondary Renewable Energy Training Programs

- 1. Delta College
- 2. Grand Rapids Community College
- 3. Grand Valley State University
- 4. Kalamazoo Community College
- 5. Kellogg College
- 6. Macomb Community College
- 7. MIAT
- 8. Monroe County Community College
- 9. Mott Community College
- 10. Northwestern Michigan College
- 11. Northwest Tech
- 12. Saginaw Valley University
- 13. Wayne County Community College



### DTE Virtual Field Trip to Learn about Renewable Energy and Educator Companion Guide



DTE Virtual Field Trip to Learn about Renewable Energy - YouTube

### Educator Companion Guide Key Learning Objectives:

Students will be able to:

- Explain how we generate energy from the wind and sun
- Describe how this energy travels along the power grid
- Imagine new ways to generate more energy from the wind and sun
- Understand the importance of addressing climate change
- Identify ways they can use energy more efficiently and reduce their carbon footprint
- Explore how individuals, businesses, nonprofit organizations and government can work together to create a more sustainable future
- Learn about different careers in the clean energy sector

<u>FINAL</u> <u>Teachers Guide for Virtual Renewable Field Trip.pdf</u> (dteempowermi.wpenginepowered.com)

### The Power of Partnerships for Renewable Energy Career Pathways





## MICHIGAN ELECTRIC VEHICLE JOBS ACADEMY (EV Jobs Academy)

### Michigan Electric Vehicle Jobs Academy (EV Jobs Academy)

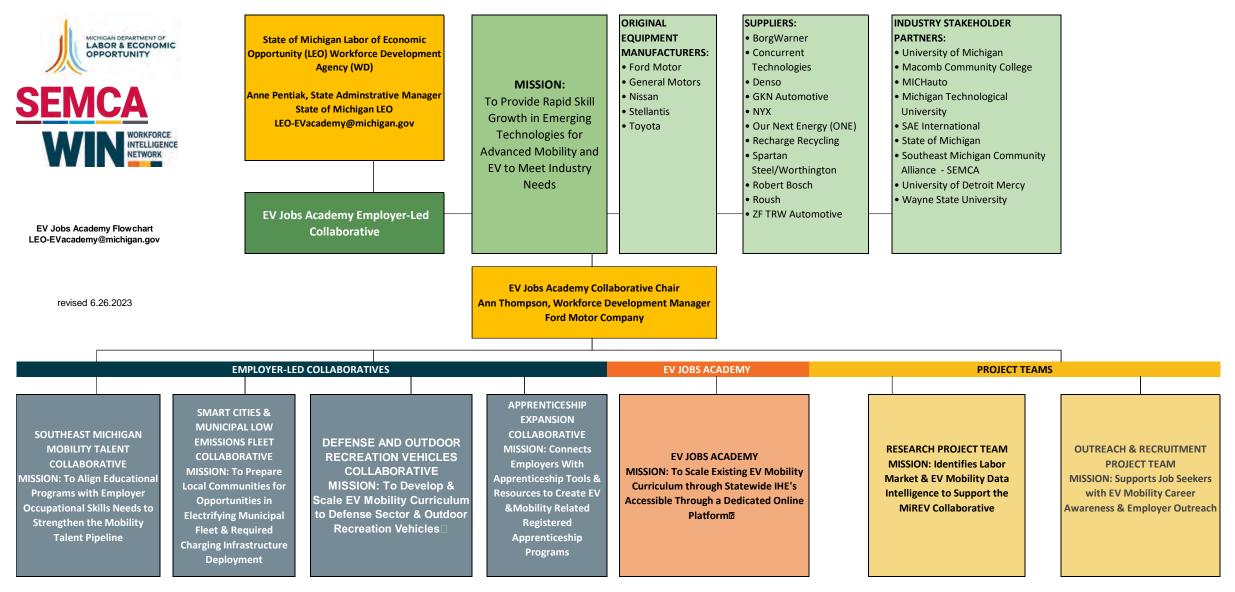
## Summary

EV Jobs Academy is an employer-led collaborative **comprised of over 100 stakeholder partners to identify EV and mobility-related occupational skill** needs, to **develop and scale postsecondary credentialing programs** utilizing a turn-key **online shared learning** platform to Michigan Occupational Dean's Administrative Council (MODAC) 32 colleges and universities statewide.

## Building a Workforce to Navigate The EV Future Mission

- To catalog and respond to advanced occupational skills needs of the automotive mobility and electrification industry
- To align education and training programs with the most critical workforce needs
- To facilitate recruiting, placement and retention solutions to fill talent gaps for in-demand and emerging occupations within the mobility and electrification industry.

### **Electric Vehicle Jobs Academy Operational Chart**



### **Electric Vehicle Jobs Academy Operational Chart (cont.)**

	EMDI OVER.	-LED COLLABORATIVES		EV TRAINING ACADEMY	PROJECT	TEAMS
				PROJECT		
SOUTHEAST MICHIGAN MOBILITY TALENT COLLABORATIVE MISSION: To Align Educational Programs with Employer Occupational Skills Needs to Strengthen the Mobility Talent Pipeline	SMART CITIES & MUNICIPAL LOW EMISSIONS FLEET COLLABORATIVE MISSION: To Prepare Local Communities for Opportunities in Electrifying Municipal Fleet & Required Charging Infrastructure Deployment	DEFENSE AND OUTDOOR RECREATION VEHICLES COLLABORATIVE MISSION: To Develop & Scale EV Mobility Curriculum to Defense Sector & Outdoor Recreation Vehicles□	APPRENTICESHIP EXPANSION COLLABORATIVE MISSION: Connects Employers With Apprenticeship Tools & Resources to Create EV &Mobility Related Registered Apprenticeship Programs	MIREV ACADEMY MISSION: To Scale Existing EV Mobility Curriculum through Statewide IHE's Accessible Through a Dedicated Online Platform	RESEARCH PROJECT TEAM MISSION: Identifies Labor Market & EV Mobility Data Intelligence to Support the MiREV Collaborative	OUTREACH & RECRUITMENT PROJECT TEAM MISSION: Supports Job Seekers with EV Mobility Career Awareness & Employer Outreach
Led by the Detroit Chamber of Commerce & MICHauto	Led by the Southeast Michigan Council of Governments (SEMCOG)	Led by National Advanced Mobility Consortium (NAMC)	Led by Michigan AFL-CIO Workforce Development Institute (WDI)	Led by Macomb Community College Center for Advanced Automotive Technology (CAAT) & Michigan	Led by Center for Automotive Research (CAR) Group & WIN Research	Led by Macomb/St. Clair Michigan Works! & Wayne County College Access Network (WCCAN)
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	Kevin Vettraino, SEMCOG	https://www.namconsortium.org/	https://miaflcio.org/institute/	Don Hutchison hutchisond@macomb.edu	Deja Torrence, Workforce	stclairworks.org
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## **First Year Accomplishments**



## EV Jobs Academy & Educational Programs in Collaboration (EPiC) Shared Learning Platform





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