

SoCalREN Workforce Education and Training Sector Programs

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Agenda

Sector List

Budget

Program

- E-Contractor Academy (ECA)
- Architecture Construction Engineering Students (ACES)
- Green Path Careers (GPC)
- WE&T Hub



Sector Program List

Program Name	New or Existing Program	Segment
Architecture Construction Engineering Students (ACES)	New	Equity
Green Path Careers (GPC)	New	Equity
Opportunity Hub	New	Market Support
E-Contractor Academy (ECA)	New	Market Support



WE&T Budget

Program Name	Segment	2024-2027
ACES	Equity	\$1,974,000
GPC	Equity	\$3,337,000
WE&T HUB	Market Support	\$2,274,800
ECA	Market Support	\$1,188,000



E-Contractor



E-Contractor Program

Established to assist Small Minority Disabled Veteran Business Enterprise (SMDVBE) contractors entering the Energy Efficiency (EE) sector by providing access to resources, quality training, one on one assistance including: access to capital, bonding and insurance and procurement assistance, Fundamentals of Green Building.



E-contractor Academy-Level 1

Level I

The E-Contractor Academy Level I Program is designed to **introduce contractors who are emerging businesses and new to public contracting** to topics to assist them with transitioning into the public sector space. The E-Contractor Level I Program includes seminars on the following topics:

1. Certification
2. Bonding & Insurance
3. Construction Delivery Methods
4. How to Register for Bid Opportunities
5. Labor Compliance
6. Resources for Contractors



E-contractor Academy-Level II

Level II

The E-Contractor Academy Level II Program is designed to further the competitive capacity of small/minority contractors to compete and perform energy efficiency retrofit projects within SoCalREN territory. The E-Contractor Level II Program includes seminars on the following topics:

1. Introduction to SoCalREN, regional energy efficiency projects and how to bid
2. Estimating
3. Project Scheduling
4. Principles of Project Management
5. Project Cash Flow Management
6. Project Closeout



E-Contractor Academy: Level III

The E-Contractor Academy Level III is in partnership with the American Society of Professional Estimators to give contractors the opportunity to increase their knowledge and skills related to **estimating**. Introduction to Construction Estimating I is an eight-week self-paced online course, which offers essential and fundamental estimating skills for construction professionals. For E-Contractor participants to take this course, they must have completed either Level 1 or Level 2 E Contractor Academies as a Prerequisite.

1. Overview of the Construction Estimate Lifecycle
2. Labor, Equipment, Materials, and Subcontracts
3. Indirect Costs, Contingency, and Various Adjustments
4. Commercial Estimate Example and Problem Part I
5. Commercial Estimate Example and Problem Part II
6. Heavy Civil Estimate Example and Problem Part I
7. Heavy Civil Estimate Example and Problem Part II
8. Experts Recommendations and Best Practices



E-Contractor Academy: Building Decarbonization

Green Building Technologies

Focusing on energy-efficient practices innovative technologies and methodologies that enhance building efficiency.

Decarbonization Best Practices

strategies for reducing carbon emissions with construction/retrofit projects.

EPA 608 Type II Certification

Mandatory certification for HVAC technicians who will work with high-pressure refrigerants. Installation, maintenance, service, repairs, and disposal of high-pressure refrigerant equipment.

Hands-on Training

Heat Pump Installation

E-contractor Workshops

The E-Contractor One Day Workshops are designed to give contractors a high-level overview of most requested topics. These workshops are held virtually, and topics are presented by one of our partners. Topics range from:

- Access to Capital
- Change Orders
- GPRO Fundamentals
- Title 24
- SoCalREN Multifamily Program

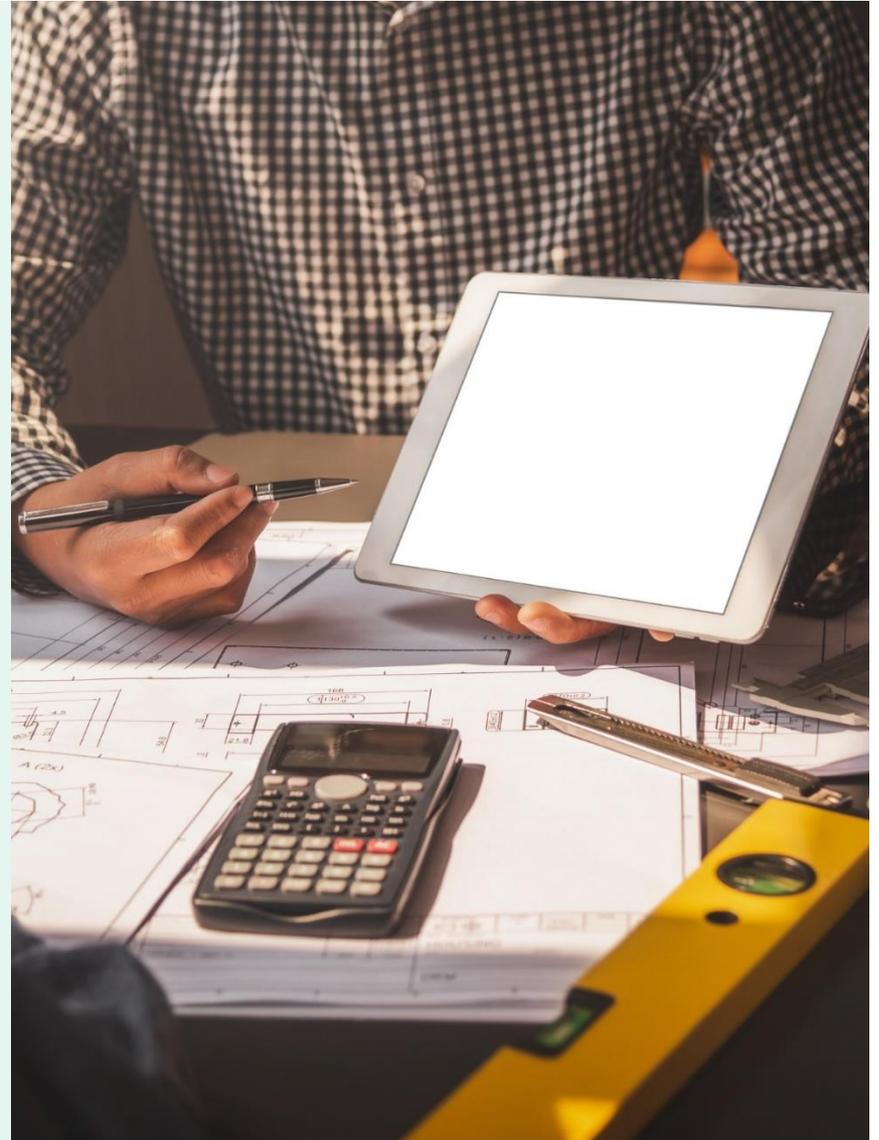


Technical Assistance/Coaching

Contractors have the ability to schedule 1:1 appointments based on their needs. This could include:

- Bid Support
- Pre-Qualification Assistance
- Project Opportunities

TA/Coaching is not limited, contractors are able to meet on a regular basis for as long as they need



E-Contractor License Assistance Program (E-CLAP)

E-CLAP is designed to assist individuals currently working in the construction industry to start their own companies and obtain their Contractor's License.

This program removes some of the financial barriers to the Contractors State License Board (CSLB) process, CSLB Exam preparation, and business start-up costs. It also creates a pathway for entrepreneurship into the clean energy industry. The process to obtaining a contractor's license and starting a construction business takes 4 to 6 months.



OSHA Safety Technician Program

Contractors will have the opportunity to go through the OSHA (Occupational Safety and Health Administration) Safety Technician Program. **California State University, Dominguez Hills (CSUDH)** offers the Safety Technician training program through its OSHA Training Institute Education Center, designed to provide comprehensive education and training in occupational safety standards and practices. Training curriculum aligned with OSHA standards will consist of, but not limited to:

- Workplace Safety
- Hazard Identification and Control
- Emergency Response
- Health and Safety Management Systems
- Certifications

The program will help create job opportunities in disadvantaged and hard-to-reach communities by equipping contractors with the skills and knowledge needed to perform EE retrofit projects, contributing to economic development.



Metrics

Metric	2024	2025	2026	2027
Course Participants	250	275	300	325
Contractors Receiving Technical Assistance/Coaching	10	15	20	25
Certifications (Industry, City/County)	15	20	25	30
Bids Submitted	3	6	9	12
Unique Participants	115	120	125	130
Technical Assistance/Coaching Hours	20	25	30	35
Events (Training Courses)	6	6	8	8



Architecture, Construction, Engineering Students (ACES)



Architecture Construction Engineering Students (ACES)

To engage, expose and challenge students from **Title 1 schools** to explore architecture, engineering and construction careers by capitalizing on public works investment, community college *science technology engineering art and math* **STEAM** course offerings and strong industry participation. **Dual enrollment** is key component of project.

- Facilitate community college enrollment in STEAM academic pathways, graduation and transfer rates.
- Expand access to transferrable college credit while in high school.
- Increase diversity of students entering the design and building industries.
- Provide introduction and pathway to union apprenticeship.



Industry Certifications

SolidWorks

In partnership with GoEngineer, we provide students the opportunity to train for the Certified SOLIDWORKS Associate (CSWA) and Certified SOLIDWORKS Professional (CSWP) international certification. SOLIDWORKS is a 3D Computer Aided Design software utilized in the ACE industry for various purposes.

Adobe and AutoDesk

In partnership with CertiPort, ACES will be expanding the **professional certifications** available to students to include Adobe Certified Professional and AutoDesk Certified User.



Industry Career Days

Mini-summits with workshops for students and **parents**.

Host Industry Career Days with partner high schools to introduce students to career pathways in the energy sector with employer partners.

This includes:

Speakers and Panelists

Workshops

Networking

Parent/Community

Workshops





Community College Bootcamps



- In partnership with Los Angeles Mission Community College, ACES has developed a one-week boot camp series for high school students to be hosted in the summer and expose them to the **certification pathways available**. It includes:
 - Curriculum covering all as aspects of Engineering
 - Hands-On Learning: Project based learning
 - Industry Partnerships: Career Pathway exposure
- This Bootcamp is now being replicated in partnership with a CBO to host **40 girls in 2025**.

K-6 Career Path Curriculum

Early Exposure to Career Paths in Green Economy.

Curriculum will be developed that **aligns with the CA Next Generation Science Standards (NGSS)** for engaging and age-appropriate lessons that will introduce students to key concepts in engineering and the EE sector. This will include:

- **Lesson Planning:** Develop Lesson Plans for each grade level that includes hands on activities and resources
- **Learning Toolkit:** Develop interactive learning tools and resources to assist teachers, students and parents.
- **Teacher Training Support:** Provide professional development opportunities and support teachers to implement the curriculum effectively.
- **Parent and Community Engagement:** Engage parents and the community in supporting energy education initiatives by providing resources



Internships

The ACES Pathway Program leverages funding from the Los Angeles County Department of Economic Opportunity (**DEO**), which is inclusive of America's Job Center of California (**AJCC**) utilizing the Workforce Innovation and Opportunity Act (**WIOA**). WIOA Title I Youth@Work funding is leveraged by enrolling ACES participants with individual AJCC's based on residence and utilizing allocated funding for supportive services and internships.

Through the Youth@Work program, participants receive **160 hours of Paid Work Experience** when placed for internships with industry employer partners.



CHILDREN Workforce Education and Training Program

Second Annual Future Green Leaders Summit



October 24, 2024

Annual summit for Middle School Children to expose them to careers in the green economy

Metrics

Metric	2024	2025	2026	2027
Schools	11	15	20	25
Unique Enrolled	150	200	250	300
Class Participants	250	275	300	325
Certifications (Skills Certificates)	20	30	35	40
Partners (Industry, College, AJCCs)	5	10	15	20
Certifications (Industry/Professional)	5	10	15	20
Internships	25	40	50	60



Green Path Careers (GPC)



Green Path Careers

The Green Path Careers (GPC) program's overarching objective is to help **opportunity youth and adults** work toward rewarding careers in the sustainable economy by teaching them skills required to succeed the high-growth energy efficiency industry. **Placement and industry commitment are key.**



Sign Up for
Green Path
Careers



Personal
Enrichment
Training



Energy Efficiency
Skills Certification



Paid Work
Experience



Energy Efficiency
Career



Key Program Concepts

Soft Skills Training (Prerequisite)

In partnership with NRG Institute and AJCCs, has developed a series of soft skills training to prepare the participants to enter the EE sector. This includes:

- **Fundamentals of Sustainability:** Training designed to provide participants with a foundational understanding of sustainability principles, practices, and strategies. Generally, the population GPC works with has no knowledge of EE, clean energy, or sustainability. (NRG)
- **Safety Training:** Similar to how OSHA is designed for construction professionals and placements, the Safety Training, in partnership with NRG Institute, will offer participants relevant information necessary for their placement. (NRG)
- **Personal Enrichment Training (PET):** In partnership with AJCCs, PET will be offered to prepare participants for transitioning into the workforce. This will include financial literacy, work ethics, life skills, career exploration, and goal setting. (AJCC)



Training Pathways

The Green Path Careers Program is an initiative created to provide training and workforce development opportunities in the clean energy sector to opportunity youth and adults, encompassing foster/transitioning foster youth, low income/ disadvantaged, justice-impacted, and homeless, with the aim to prepare individuals for careers. Training is offering on the following:

- BPI
 - Energy Auditor
 - Infiltration and Duct Leakage
 - Building Analyst Professional
 - Envelope Professional
- CalCerts
 - HERS Rater
 - EPA 608 Type II
 - HERS Residential Alterations



Key Program Concepts

Resource Handbook

Resource Handbook that will cover SoCalREN Territory with service partners to include but not limited to:

- Emergency Shelter
- Food Assistance
- Transitional Housing/Independent Living Programs
- Disability Services
- Health and Wellness
- Mental Health Support



Metrics

Metric	2024	2025	2026	2027
Career Plans	25	30	35	40
Enrolled	45	50	55	60
Certifications	20	25	30	35
Trained Participants	25	25	30	36
Employer Commitments (Interest Form)	14	19	24	29
Placements	5	10	15	20
Participants On the Job Training (OJT AJCC)	4	8	12	16



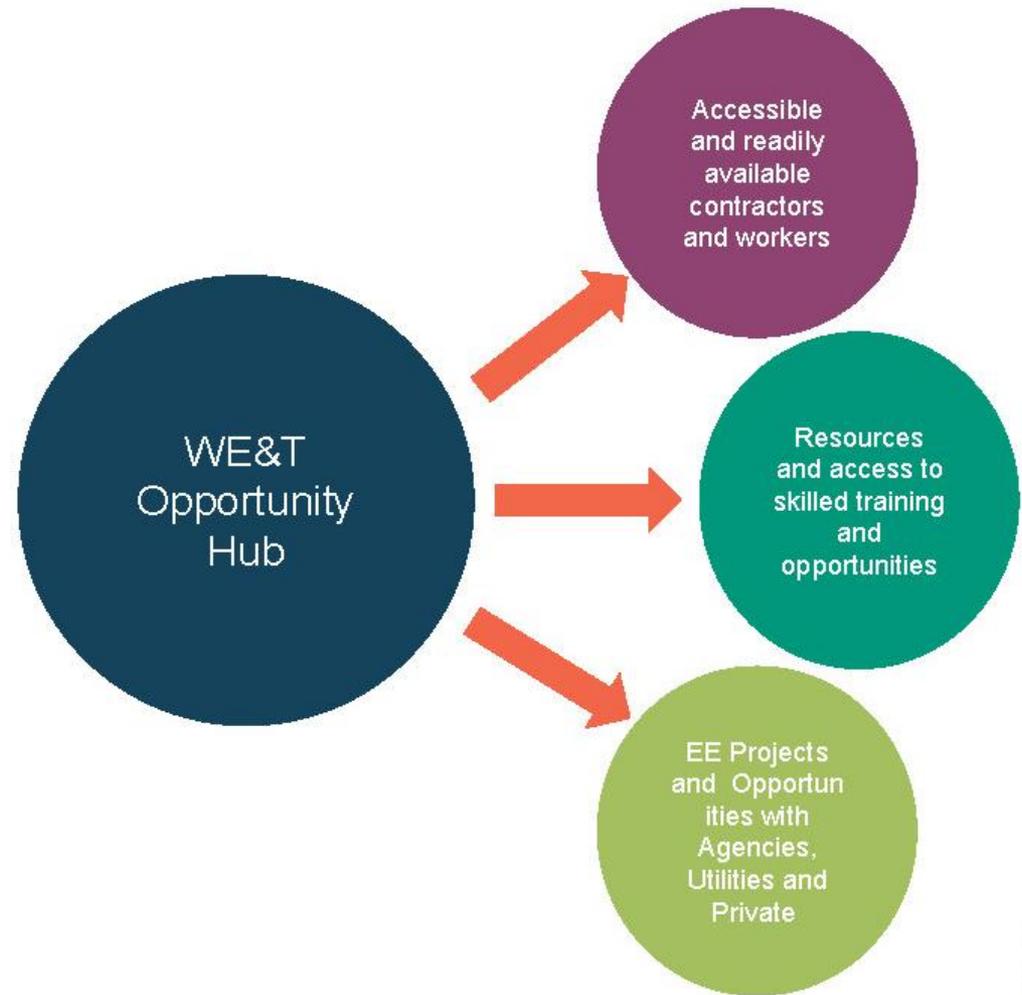
WE&T Opportunity Hub



WE&T Opportunity Hub

The WE&T Opportunity Hub **connects contractors and workers to jobs and opportunities.**

Organizes the infrastructure needed to connect SoCalREN's small and minority contractors and disadvantaged workers to capacity- building resources and opportunities.



Opportunity Hub

All WE&T programs access Hub services.

Resource Library

Centralized source to provide tools, templates, and information to support small contractors in managing and growing their businesses.

Training Center

Training Center offering specialized education aimed at improving skills for contractors and job seekers. These will be on demand in the form of modules, videos or live learning.

Marketplace

The Marketplace/Opportunity clearing house will serve as the hub for small contractors, and individual workers can find relevant projects, **bid opportunities, job postings**, etc.



Metrics

Hub

Metric	2024	2025	2026	2027	Total
Job Opportunities Advertized	NA	20	25	30	85
Project Opportunities Advertized	NA	20	25	30	85
User Accounts Created	NA	70	100	150	360

Questions?





Thank You

