

***December, 2011
CalRecycle Zone Works
Workshop
Sacramento, California***

environmental
T R A I N I N G C E N T E R

Presenter

- Richard Della Valle
 - Statewide Initiative Director
 - Environmental Health, Safety and Homeland Security
 - Environmental Training Centers

EHMT Program Goal



To provide the knowledge and skills that allow a person to work with toxic substances in compliance with government regulations while protecting the environment, human health and safety.

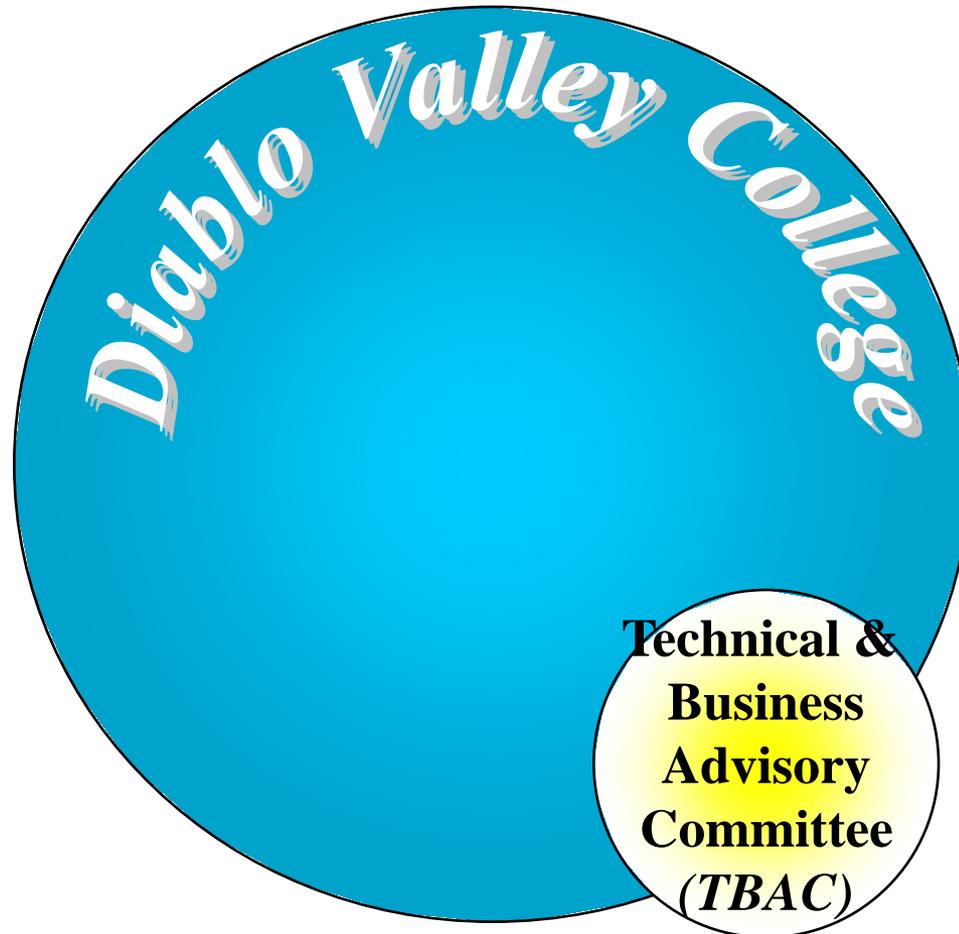
The National Need

- **Over 33,000 hazardous waste sites on superfund list**
- **DOE estimates high demand for environmental professional in next decade**
- **DOE - 13 major sites - thousands of remediation areas - estimated clean up \$50 billion dollars.**
- **DoD - 1855 bases with 17,482 polluted sites - greater than 100 superfund sites - \$200 billion dollars**
- **EPA - Clean Air Act enforcement estimated to impact 34,000 facilities, large and small**
- **Public and governmental attention is increasingly focused on environmental quality - protection/prevention, restoration, waste reduction**
- **Need for two-year degree/certificated technicians has been identified as the key near-term problem**
- **Worker health and safety training needs for industry is an ongoing need**

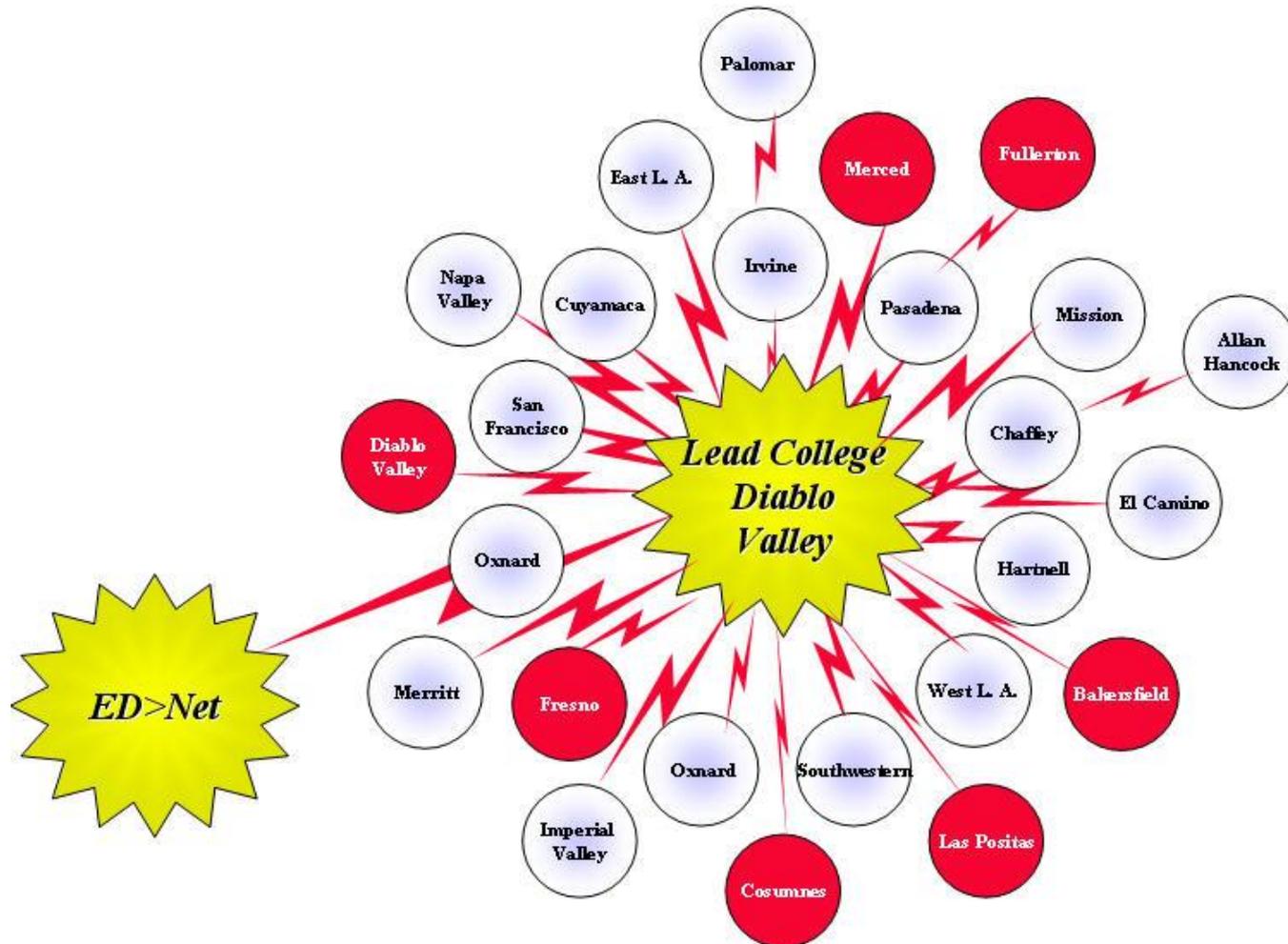
Program Development Steps

- **Establish need**
 - **Surveys**
 - **A reason to meet)**
- **Seed money**
- **Organization (ED>Net)**
- **Plan development**
- **Establish desired competencies**
- **Curriculum development**
- **Teacher training (in service training)**
- **Program approval**
 - **Academic Senate**
 - **Model Program Acceptance**
- **Program delivery**
- **WWW, Internet, Newsletter**
- **Technical Advisory Committees**
- **Local, Regional and National Groups and meetings**

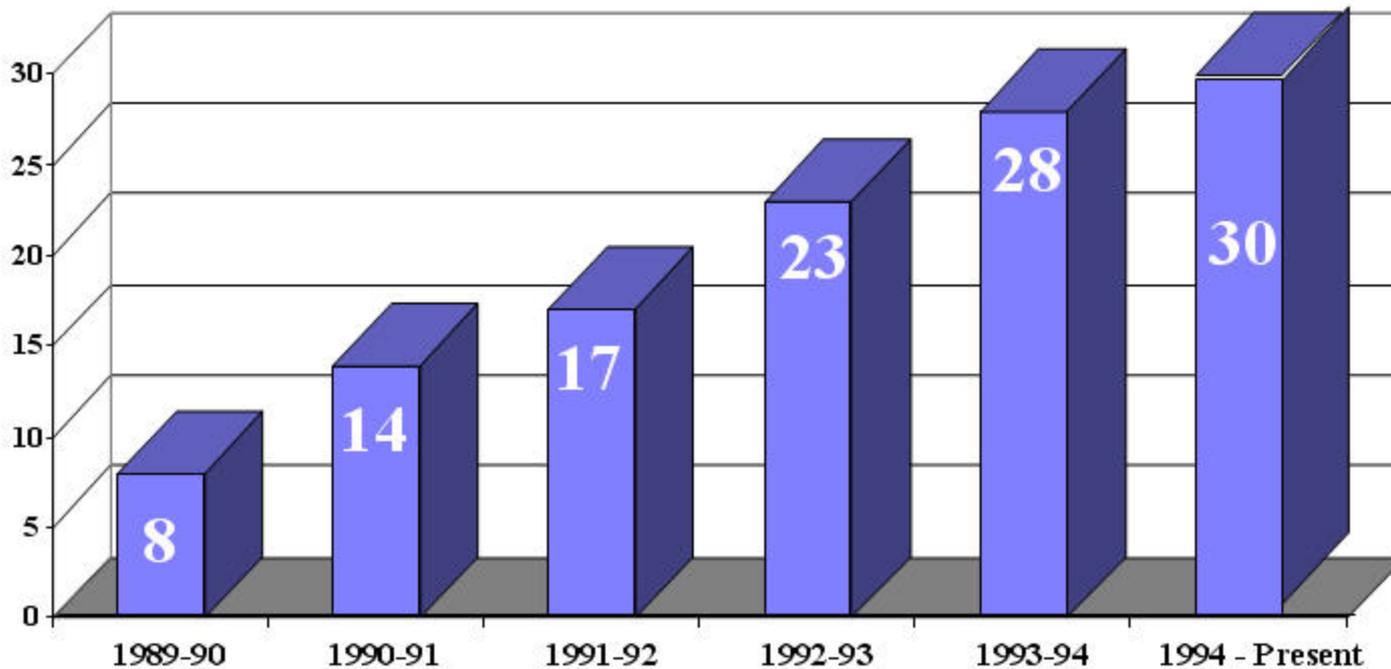
Organizational Structure



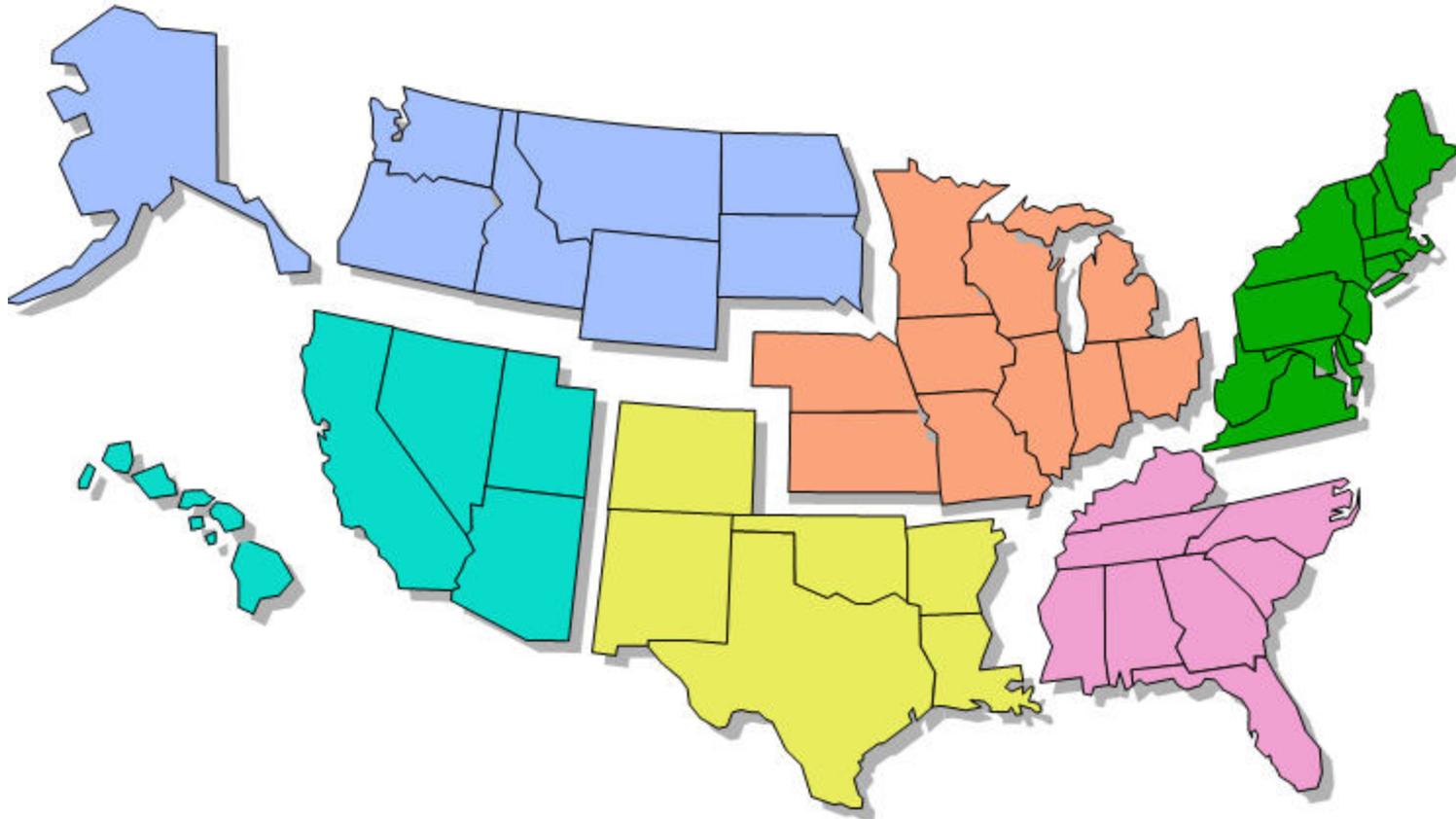
Initial Buildout



Environmental Technologies Program Growth



Six Regional Programs

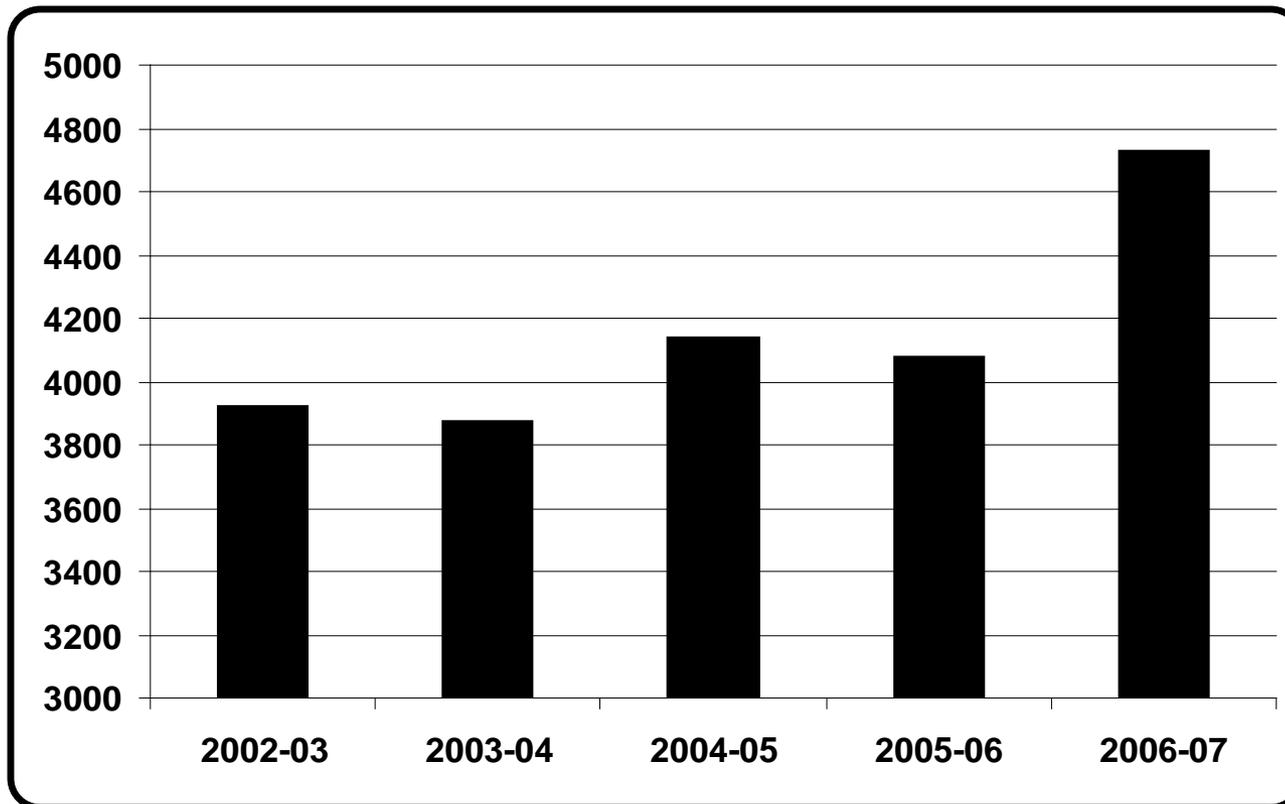


Early Program Buildout

- Homeland Security
 - Nuclear, Biological, Chemical Training
 - Hazmat Technician
 - Up to 8,000 students per year
- Geographic Information Systems
 - ESRI Purchasing Program
 - Expansion to 50 Colleges
 - Over 5,000 students per year

Geospatial Technology History

Yearly Student Growth 2002-2007



Curriculum

- NSF Grant
- Preserving the Legacy Project
- Six Technical Books along with over 200 environmental video clips
- 6 core courses delivered statewide
 - Introduction to Environmental Technology
 - Hazardous Waste Generation/Reduction/Treatment

Curriculum Continued

- Health Effects of Environmental Hazardous Materials
- Hazardous Waste Management Applications
- Hazardous Materials Management Applications
- Safety and Emergency Response

New Mission Statement

The mission statement of the Environmental Health, Safety, and Homeland Security Initiative focuses on coordinating the statewide and regional environmental efforts of the California Community Colleges and involving faculty and business in all aspects of curriculum development, training and assessment.



**ECONOMIC &
WORKFORCE
DEVELOPMENT**
through the
CALIFORNIA
COMMUNITY
COLLEGES

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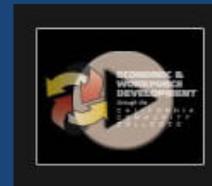
[Calendar of Events](#)

[Contact Us +](#)

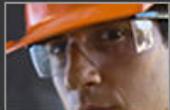
Economic and Workforce Development *through...*

Our Mission:

We invest in California's economic growth and global competitiveness through industry-specific education, training and services that contribute to a highly skilled and productive workforce.



[Watch our video](#)



Compete:
Workforce Training
& Education



Innovate:
Technology
Deployment



Grow:
Business
Development



Inform:
Targeted California
Industry Reports



Leverage:
High Growth
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Preserving the
Legacy

Energy Efficiency
Conference
March 20, 2009

GHG Compliance
Reality vs. Fiction
Free Class - Oct. 21, 2009

ETC Central Office:
1 (800) 344-3812

ETC Help Desk:
helpdesk@EnvTraining.org

IS YOUR BUSINESS Compliant? Safe? Prepared?



ETC provides the assistance you need to comply with Federal and California EPA, OSHA and other Environmental, Health and Safety regulations.



What is ETC?

Sponsored through the Economic Workforce Development program of the California Community College System, the Environmental Training Centers (ETC) provide the highest quality environment, health, safety, and homeland security training for the California workforce and assist small-to-medium-sized businesses in their environmental compliance issues.

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Bay Area

South Coastal

LA/Orange

San Diego

Courses Offered By
Location

Training Calendar

Administrative

Center Locations

There are five ETC Centers in California.
Contact the center nearest you or call 1-800-344-3812

Bay Area ETC

Mission College
Phone: (408) 855-5584
Fax: (408) 855-5583
Email: michael@envtraining.org

South Coastal ETC

Allan Hancock College
Phone: (805) 922-6966
Fax: (805) 922-5446
Email: dsenior@hancockcollege.edu

L.A./Orange ETC

North Orange CCD
Phone: (714) 808-4620
Phone 2: (714) 808-4614
Fax: (714) 808-4606
Email: perla@envtraining.org

San Diego ETC

Cuyamaca College
Phone: (619) 660-4020
Phone 2: (800) 937-4344
Fax: (619) 660-4012
Email: Jennifer@envtraining.org



Richard Della Valle
Statewide Initiative Director
Email: Rich@envtraining.org



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Courses Offered By Location

*To view program details click on the program title.
To contact a program provider click on the related star.*

Program Title	North/Far North	Bay Area	Central	South Coastal	L.A./Orange	San Diego
16 Hour Water and Mold Damage Detection, Remediation & Prevention		★				★
40-Hour OSHA HAZWOPER	★	★	★	★	★	★
8 Hour HAZWOPER Waste Management		★	★		★	★
8 Hour OSHA HAZWOPER Refresher		★	★		★	★
Adult/Pediatric CPR		★				★
Adult/Pediatric CPR Renewal		★				★
Air & Water Pollution Permitting				★		★
Business Emergency Preparedness Certificate Program				★	★	
Business Resumption Plan		★			★	★
CAL OSHA Management and Audits					★	★
California Compliance School-Training for Hazardous Waste Generators			★			
					★	

October 2009

← October, 2009 →

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Please send your questions and/or comments to:
helpdesk@envtraining.org



Events scheduled for October, 2009

8 Hour HAZWOPER Refresher

Friday, Oct 2 2009

Time: 08:00 AM - 05:00 PM

Calendar: San Diego ETC

Location: Cuyamaca College at 900 Rancho San Diego Parkway,
El Cajon, CA 92019 ROOM F-724

Contact: San Diego ETC

Phone: (619) 660-4020

Email: Jennifer.Lewis@gcccd.edu

Required for those who have completed a 40-Hour or 24-Hour OSHA training and want to remain certified. This seminar will include lectures, table top exercises, and hands-on activities. A certificate will be issued upon completion of the class. Fee is \$15.00 for book & certificate. To register call: (619)660-4350.

[Link to more information about 8 Hour HAZWOPER Refresher](#)

HazMat General Site Worker-40 Hr.

Friday, Oct 2 2009

Time: 08:00 AM - 05:00 PM

Calendar: South Coastal ETC

Location: Allan Hancock College

Contact: Robert Peterson

Phone: 805-922-6966 x 3738

Email: rpeterson@envtraining.org

Designed to facilitate employer compliance with mandated federal and/or state Hazwoper General Site worker.

California ETC

**Get the Training You Need from One of
California's Environmental Training
Centers!**

WHAT IS ETC?

Sponsored through the Economic and Workforce Development program of the California Community College System, Environmental Training Centers (ETC), provide affordable and quality training in environmental compliance and management, occupational health and safety, homeland security/emergency response, and green technologies. A primary objective is to serve as liaisons between a business and government agencies.

WHY USE ETC?

- Based upon a business need, ETC offers low-cost or free technical assistance to assess the specific needs of business, public agencies, educational institutions and industries we serve in our regions.
- ETC assists businesses through training, compliance documents development and other services to mitigate the impact of Environmental Health and Safety regulations. We collaborate with public agencies and professional industry associations including but not limited to the following: Cal-EPA, Federal EPA, FEMA, CalEMA, Department of Public Health, local CUPA's, Department of Toxic Substances Control, Alliance of Hazardous Materials Professionals, California Waste Association and California Air Resources Board.

California ETC



CUSTOMIZED TRAINING AT AFFORDABLE RATES

Through our Centers, businesses have access to high-quality customized training programs developed and delivered specifically to meet their unique needs.

Northern California Environmental Training Center at Mission College



NCA | ETC

**NORTHERN CALIFORNIA
ENVIRONMENTAL
TRAINING CENTER**

Phone: (408) 855-5584

ENVIRONMENTAL COMPLIANCE

- Underground Storage Tanks Designated Operator
- Aboveground Petroleum Storage
- Title-22
- Asbestos General Awareness
- Asbestos-Cement Pipe Cutting
- Lead Awareness
- Mold Awareness

HEALTH & SAFETY

- Blood Borne Pathogen
- Workplace Violence Intervention and Prevention
- Building Emergency Evacuation
- Fire Extinguisher
- Forklift/Industrial Powered Equipment
- OSHA General Industry Standards Orders (GISO)
- Hazard Communication Program
- Confined Space Awareness
- Injury Illness Prevention Program (IIPP)

HOMELAND SECURITY/EMERGENCY RESPONSE

- DOT CFR 49 Transportation of Hazardous Materials
- International Air Transportation Association (IATA)
- Dangerous Goods Regulations
- 8, 24 and 40 Hour HAZWOPER
- Standardized Emergency Management System (SEMS)
- National Incident Management Systems (NIMS)
- Incident Management Basics for Business and Industry
- Community Emergency Response Team (CERT)

Central California Environmental Training Center at Allan Hancock College



CCA | ETC

**CENTRAL CALIFORNIA
ENVIRONMENTAL
TRAINING CENTER**

Phone: (805) 735-3366 Ext. 5276

ENVIRONMENTAL COMPLIANCE & MANAGEMENT

- 40-Hr., 24-Hr., 8-Hr. CalEMA/CSTI
HAZWOPER
- Environmental Technology

ENERGY EFFICIENCY/MANAGEMENT

- Renewable Energy
- Weatherization
- Energy Efficient Window and Door Installation
- Solar PV Installation

HEALTH & SAFETY

- Respiratory Protection Administration and Fit Testing
- CPR for Health Care Providers
- First Aid and CPR for Child Care Providers
- American Red Cross First Aid/CPR and AED

HOMELAND SECURITY/EMERGENCY RESPONSE

- CalEMA/CSTI First Responder Awareness (FRA)
- CalEMA/CSTI First Responder Operations (FRO)
- FRO Refresher (available online)
- CalEMA/CSTI FRO – Decontamination
- CalEMA/CSTI FRO – Weapons of Mass Destruction
- HazMat Incident Command
- Principles of Emergency Management
- Incident Command System
- Medical First Responder
- EMT Refresher (available online)
- FEMA Community Emergency Response Team (CERT)

South Coastal/Central Environmental Training Center CCAETC

MVE Institutional
Planning Architecture Interiors

BIRDS EYE VIEW OF PUBLIC SAFETY TRAINING CENTER

C09-024-04



PUBLIC SAFETY TRAINING CENTER

ALLAN HANCOCK COLLEGE - LOMPOC VALLEY CENTER



e environmental
TRAINING CENTER

Los Angeles/Orange Co. Environmental Training Center at North Orange CCD



LAOC | ETC

**LOS ANGELES
ORANGE COUNTY
ENVIRONMENTAL
TRAINING CENTER**

Phone: (714) 808-4620

ENVIRONMENTAL COMPLIANCE & MANAGEMENT

- 40 Hr, 8 Hr, 24 Hr. HAZWOPER
- Transportation of Hazardous Materials by DOT
- Environmental Technology

OCCUPATIONAL HEALTH & SAFETY

- 10 Hr. OSHA General Industry Standards
- Forklift Training
- Universal Waste
- Hazard Communication, Confined Space, Electrical Safety, Machine Guarding, Lockout/Blockout

HOMELAND SECURITY/EMERGENCY RESPONSE

- Hospital Emergency Response Training (HERT)
- First Responder Awareness (FRA)
- First Responder Operations (FRO)
- Ready America – Business and Individuals

GREEN TECHNOLOGIES

- Green Building Professional
- Title 24 – California Energy Efficiency Standards
- Water/Energy Audit

San Diego/Imperial Environmental Training Center at Cuyamaca College



SD|ETC

**SAN DIEGO / IMPERIAL
ENVIRONMENTAL
TRAINING CENTER**

Phone: (619) 660-4020

ENVIRONMENTAL COMPLIANCE & MANAGEMENT

- Environmental Compliance Counseling and Customized Training
- HAZWOPER General Site Worker (40-Hour/24-Hour/8-Hour Refresher)
- Department of Transportation/HazMat Regs.
- Environmental Management Associates Degree and Certificate Programs

OCCUPATIONAL HEALTH & SAFETY

- Electrical Safety
- OSHA 10-Hour Construction Safety
- Hazard Communication, Confined Space, Electrical Safety, Machine Guarding, Lockout/Blockout
- Occupational Safety and Health Management Associates Degree and Certificate Programs

EMERGENCY RESPONSE

- Incident Command System
- CERT
- C-CERT
- Train the Trainer

GREEN TECHNOLOGIES

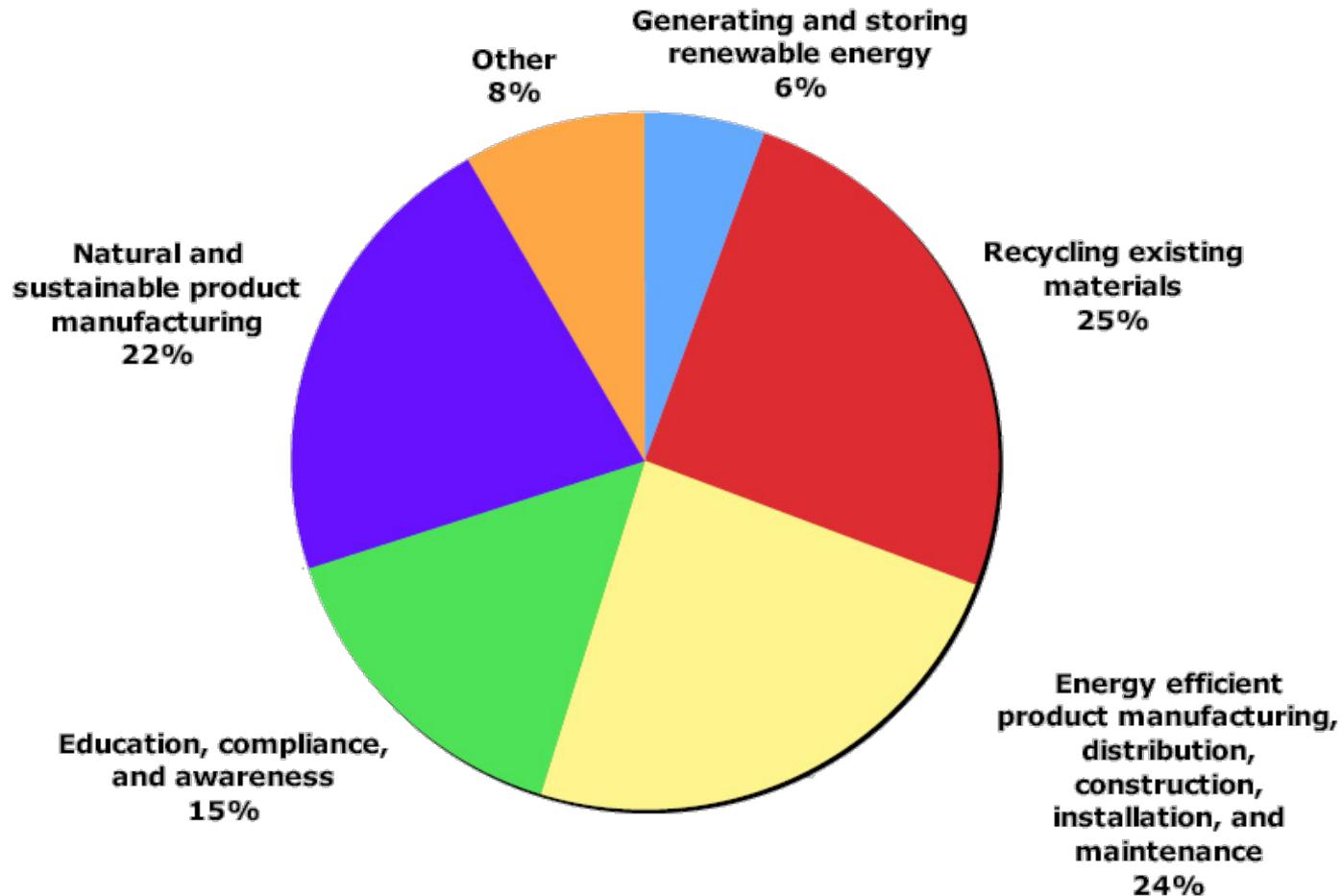
- Title 4 California Energy Efficiency Standards
- Solar PV Installation and Sales
- Solar Thermal Systems
- BPI (Building Performance Institute) Certifications
- California Advanced Lighting and Controls Training Program (CALCTP)
- Water Conservation/Sustainable Urban Landscaping
- Green Entrepreneurship

A Working Definition of Green Jobs

Green jobs produce (“supply”) goods or services that result in:

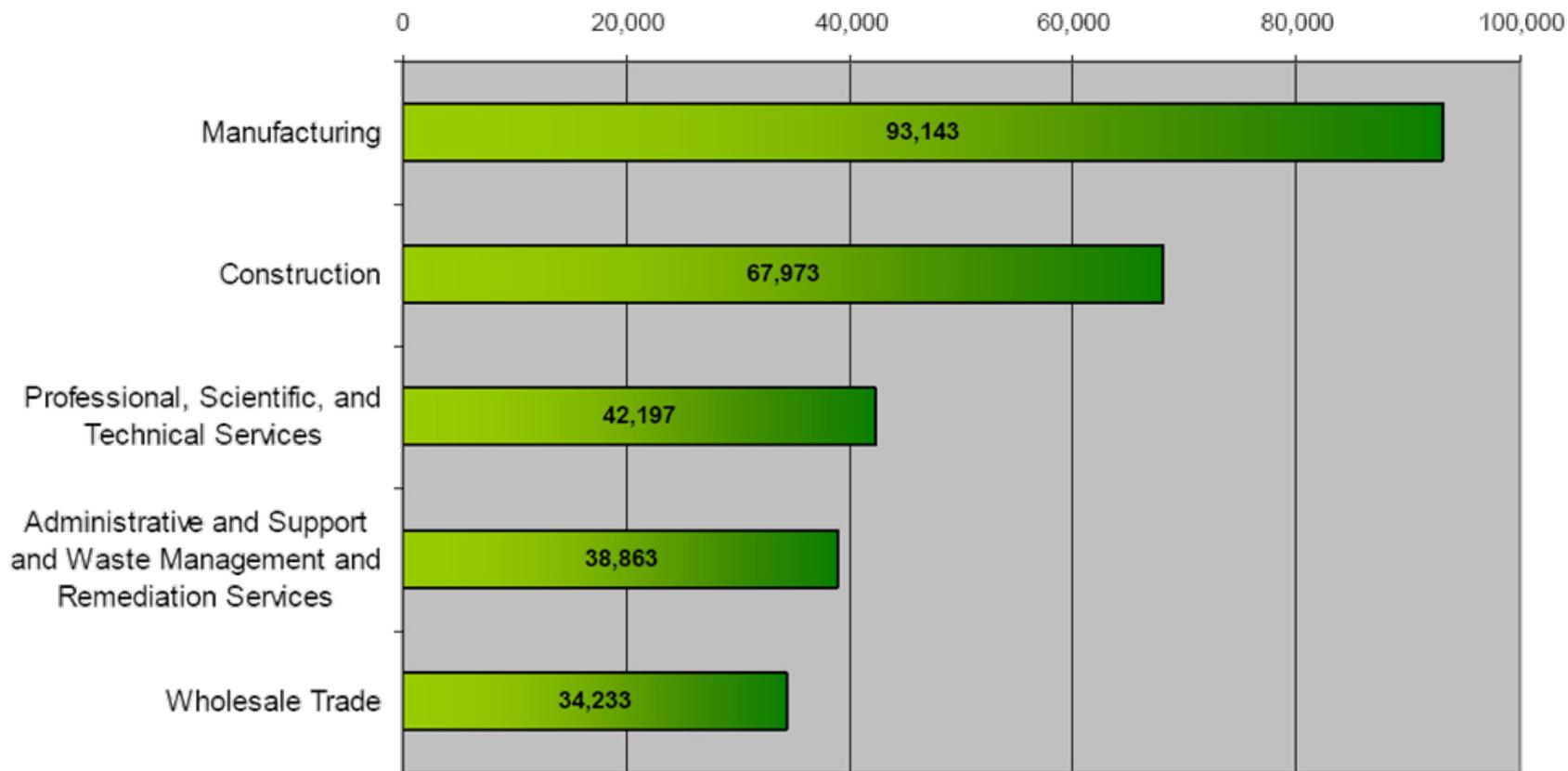
- **Generating and storing renewable energy**
- **Recycling existing materials**
- **Energy efficient product manufacturing, distribution, construction, installation, and maintenance**
- **Education, compliance and awareness**
- **Natural and sustainable product manufacturing**

Green Workers Reported



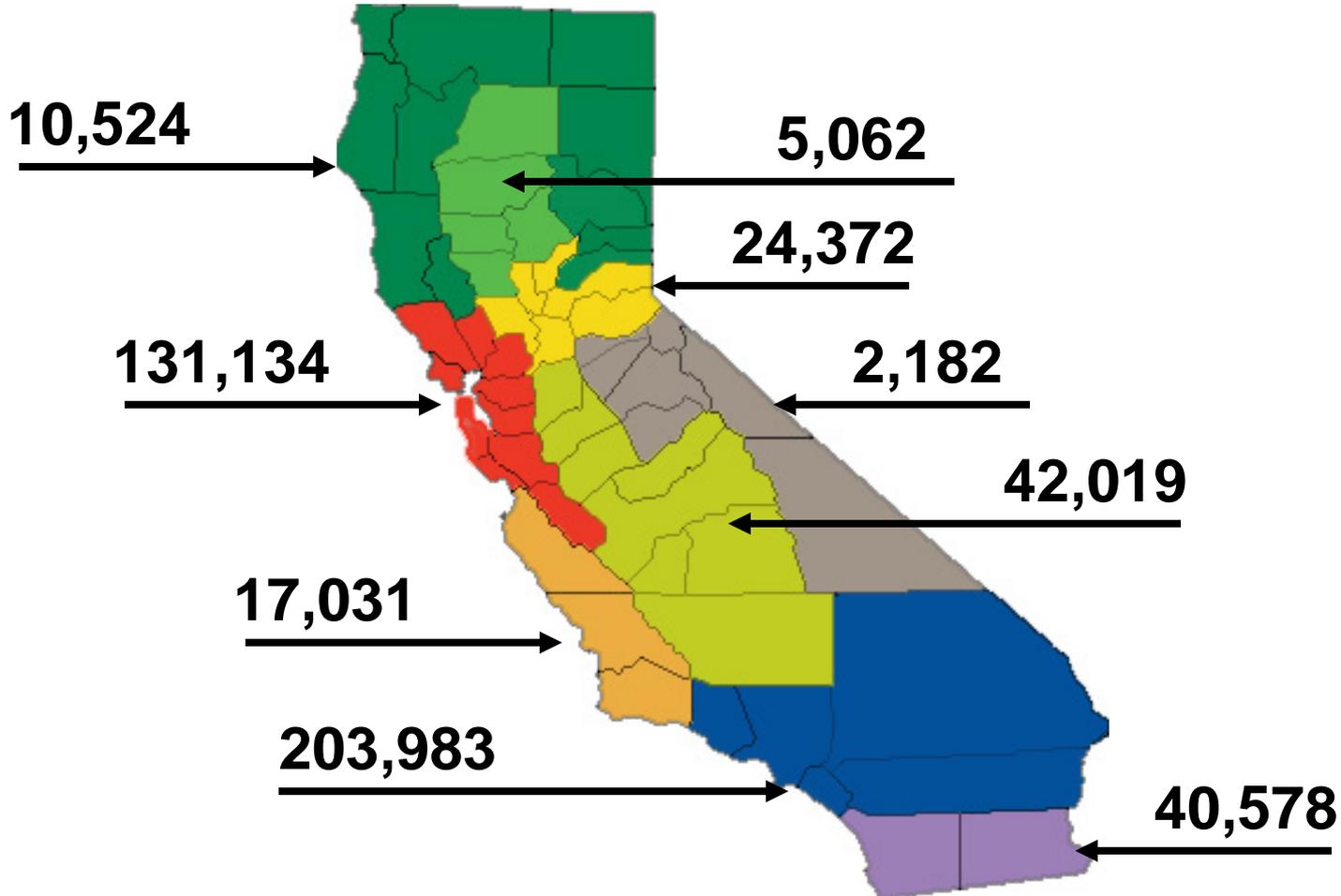
Preliminary data as of April 5, 2010

Industries with the Most Green Jobs



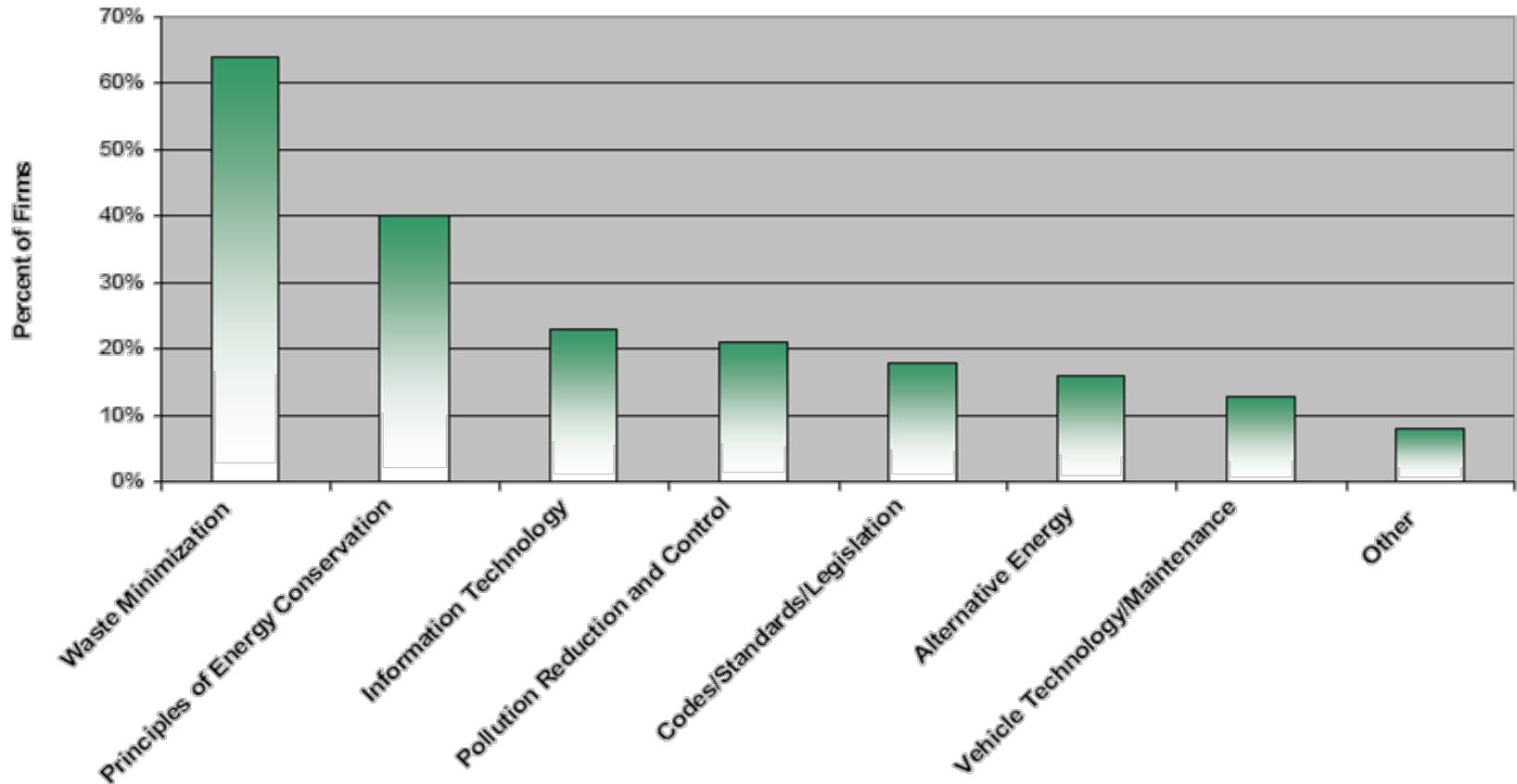
Preliminary data as of April 5, 2010

Regional Distribution of Green Jobs

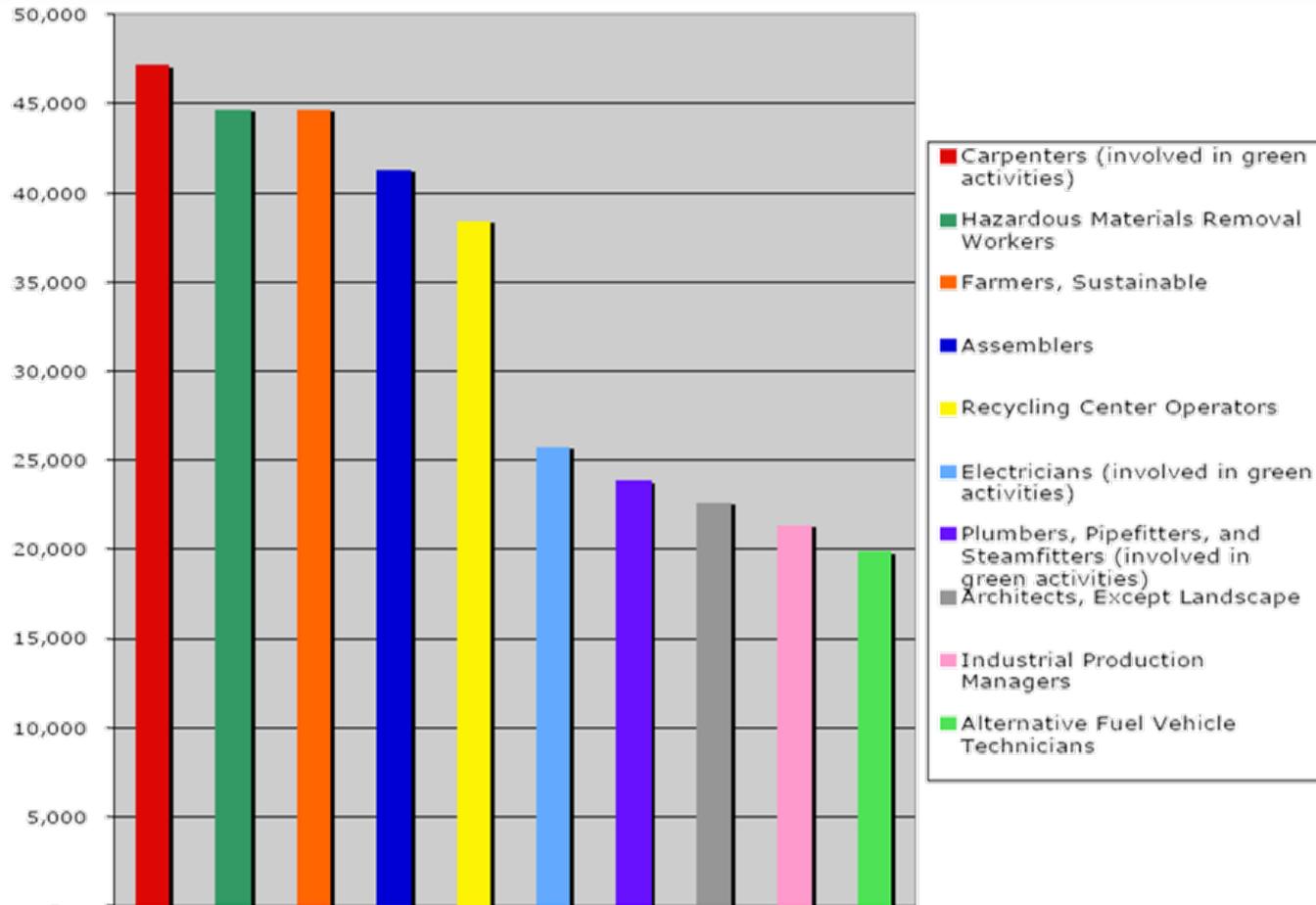


Business Practice Skill Needs

What new skills or knowledge will future employees need in order to perform green activities at your firm?



Top Green Jobs



Preliminary data as of April 5, 2010

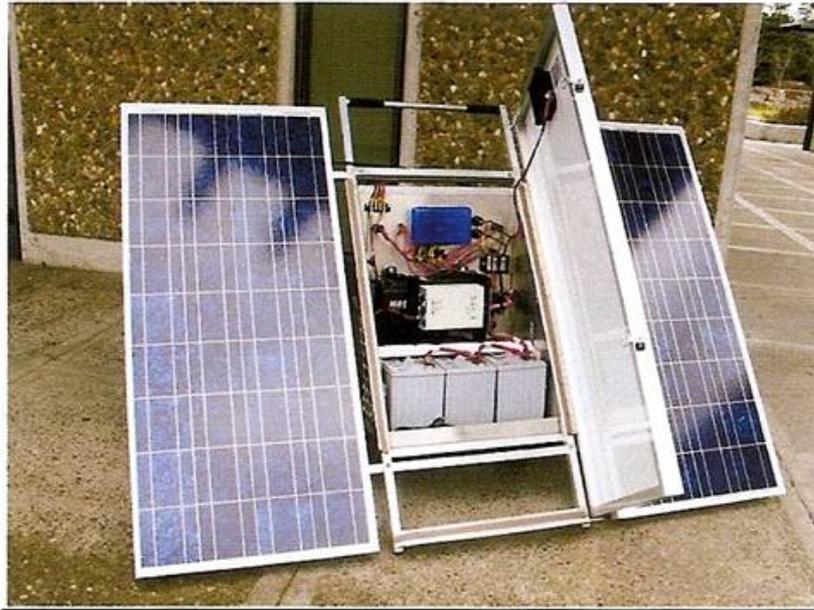
Green Activities

- Solar Panel Presentation
- Green Day
- Green Chemistry/Beyond Benign
- Curriculum Development
- Green Summits

Green Activities

- HVAC
- Manufacturing
- Higher Education Sustainability
- Lighting display unit

Solar Power Teaching Unit



The Solar Power Teaching Unit was designed to teach and demonstrate various aspects of solar technology, including:



Generator mode



PV array-only mode



Grid connect mode

Solar Power Teaching Unit



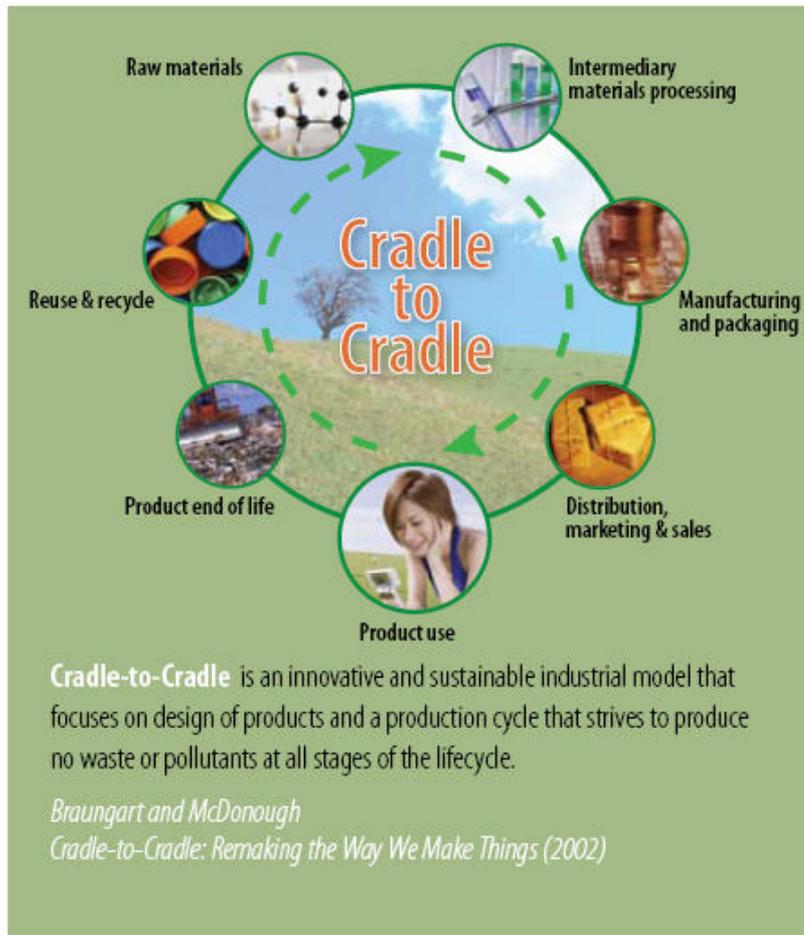
California Green Chemistry

- **Green chemistry represents a major paradigm shift that focuses on environmental protection at the design stage of product and manufacturing processes.**
- **It is an innovative way to deal with chemicals before they become hazards, with the goal of making chemicals and products “benign by design.”**
- **Green chemistry is a preemptive strategy that reduces the use of toxic substances before they contaminate the environment and our bodies.**

SIX RECOMMENDATIONS

- Expand Pollution Prevention
- Develop Green Chemistry Workforce Education and Training, Research and Development, and Technology Transfer
- Create an Online Product Ingredient Network
- Create an Online Toxics Clearinghouse
- Accelerate the Quest for Safer Products
- Move Toward a Cradle-to-Cradle Economy

Cradle to Grave



Environmental Training Centers

To find out more about the Environmental Training Center Programs

- www.envtraining.org
- Richard Della Valle, Statewide Director
rdellavalle@cccewd.net



environmental
TRAINING CENTER

Thank you for attending this workshop!