



WORKFORCE INVESTMENT BOARD OF VENTURA COUNTY

CLEAN/GREEN COMMITTEE MEETING

Friday, January 17, 2014
8:00 a.m. - 9:30 a.m.

Ventura County Community Foundation (VCCF) Nonprofit Center
4001 Mission Oaks Blvd. (Board Room), Camarillo

AGENDA

8:00 a.m.	1.0 Call to Order and Agenda Review	Victor Dollar
8:02 a.m.	2.0 Public Comments <u>Procedure:</u> The public is welcome to comment. All comments not related to items on the agenda may be made at the beginning of the meeting only.	Victor Dollar
8:05 a.m.	3.0 Approval of Minutes: November 15, 2013	Victor Dollar
8:07 a.m.	4.0 Clean/Green Spotlight <i>Alan DeRossett The 101 Incubator</i>	John Brooks
8:20 a.m.	5.0 Ventura County Regional Strategic Workforce Development Plan 2013-2017: Update	Cheryl Moore
	6.0 Clean/Green Workforce Pipeline Development: Updates	
8:25 a.m.	• Clean/Green Education: K-12 and Academies	Tiffany Morse
8:35 a.m.	• Green-Related Apprenticeships: Local/Regional Programs	Rodney Cobos
8:45 a.m.	• Public/Private Sector Green Certification Possibilities	Dave Fleisch/ Paul Grossgold
8:55 a.m.	• Clean/Green Occupational Data	Talia Barrera
9:15 a.m.	• Two-Year Plan: Draft	Cheryl Moore
9:25 a.m.	7.0 Committee Member Comments	Committee Members
9:30 a.m.	8.0 Adjournment <u>Next Meeting</u> February 21, 2014 (8:00 a.m.-9:30 a.m.) Ventura County Community Foundation (VCCF) Nonprofit Center 4001 Mission Oaks Blvd. (Community Room), Camarillo	Victor Dollar

Individuals who require accommodations for their disabilities (including interpreters and alternate formats) are requested to contact the Workforce Investment Board of Ventura County staff at (805) 477-5306, at least five days prior to the meeting. TTY line: 1-800-735-2922. For more information, visit the Ventura County Workforce Investment Board Website at <http://www.wib.ventura.org>.

WIB Clean/Green Committee Meeting
November 15, 2013

MINUTES

Meeting Attendees

Committee

Teresa Johnson*
John Brooks
Diane DeMaily
David Fleisch
Paul Grossgold
Teresa Johnson
Valeria Makarova
Wayne Pendrey
Gary Wartik

WIB Staff

Cheryl Moore
Talia Barrera

Guests

Rebekah Evans (Ventura County
Lodging Association)
Heidi Hayes (theAgency)
George Kopf (BPI Building Analyst and
Proctor)
Rachel Morris (Ventura Climate Care
Options Organized Locally (VCCOOL))
Leon Shapiro (Green Building Group)

**WB Members*

1.0 Call to Order

Teresa Johnson (acting chair) called the meeting to order at 8:10 a.m.

2.0 Public Comments

No comments

3.0 Approval of the Minutes of November 15, 2013

Motion to approve: Paul Grossgold
Second: Dave Fleisch
Motion carried

4.0 Clean/Green Spotlight

Rachel Morris gave a brief overview as to how VCCOOL is supporting sustainability. The VCCOOL focus is to engage the Ventura community to reduce greenhouse gases. The company strives to influence policy by collaborating with the community collaborators to support lifestyle change and a green economy. A recent project is the Ventura Master Bikeway Plan. Accomplishments also include a Southern California Association of Governments (SCAG) movement of \$700,000,000 of additional funds to active transportation in the 2012 regional transportation budget. VCCOOL is actively working with community partners such as businesses, the local school district, medical groups, religious organizations, non-profits, city, county and elected officials to engage the people of Ventura and support a local green economy.

5.0 Clean/Green Workforce Pipeline Development: Updates

Committee members agreed that engaging more employers in sustainability practices will increase the demand for clean/green related skills, jobs, and services. However, a higher level of business engagement will require significant culture change, and the Committee discussed the need for coordination and collaboration for county-wide educational effort. To develop a foundation for a regional discussion, the group identified several important steps:

- Inventory of green-related certifications/apprenticeships in other parts of California: George Kopf provided a summary of his research regarding energy-related certifications in California.
- Exploration of public/private sector green certification possibilities; why and how to engage in sustainability practices; return-on-investment benefits: in progress (Dave Fleish and Paul Grossgold)
- Inventory of green-related apprentice programs offered by unions: in progress (Rodney Cobos)
- Inventory of what K-12 schools and academies are doing related to green-related careers/certificates/pre-apprenticeships: in progress (Tiffany Morse)
- Inventory of what community colleges are doing related to green-related certificates/apprenticeships/programs (TBD)
- Inventory of what universities are doing related to green-related certificates/apprenticeships/programs: Valeria Makarova summarized her research on specific programs being offered by California Lutheran University (CLU) and California State University Channel Islands (CSUCI), to educate managers and professionals on energy related issues. CLU offers a sustainability program which includes Business of Renewable Energy Technologies with an overview of hydroelectric, biomass, biofuel, geothermal, wind and solar energies. CSUCI also offers sustainability-focused courses that provide valuable information for students on the various components of sustainability. Examples of courses are biology, chemistry, environmental economics, environmental science, and physics.

The Committee discussed ideas, awareness, types of jobs, and potential questions to consider in clean/green workforce development. The Committee outlined the need to define job requirements, identify educational resources, and identify opportunities for regional collaboration. Discussion will continue in future meetings to determine priorities and next steps in building a workforce pipeline for the region.

6.0 Two-Year Plan: Draft

At the next meeting, the committee will work on a two-year plan to identify and develop a strategy to address the regional priorities for green-related workforce development. Input received will be used to align committee activities with sector priorities of the five-year Ventura County Regional Strategic Plan for Workforce Development.

7.0 Committee Member Comments

No comments

8.0 Adjournment

The Committee adjourned 9:30 a.m.

Next Meeting

January 17, 2014 (8:00 a.m.–9:30 a.m.)
Ventura County Community Foundation
4001 Mission Oaks Blvd., Camarillo, CA

Agriculture and Natural Resources					
High School	District	High School	Pathway	Courses	
	Oxnard Union High School District	Adolfo Camarillo	Agriculture Business Management/ Animal Science	Animal and Plant Physiology I Animal and Plant Physiology II Nursery Operations Agriculture Business Agriculture Business Academy	
			Agriculture Business Management/ Ornamental Horticulture	Intro to Floral Design Advanced Floriculture and Floristry Nursery Operations Agriculture Business Agriculture Business Academy	
		Channel Islands	Marine Science Academy	Ocean Careers/Technology Marine Biology Environmental Science	
	Santa Paula Unified School District	Santa Paula	Agriscience	Agriculture Science Academy I Agriculture Science Academy II Agriculture Science Academy III Agriculture Science Academy IV Supervised Agriculture Experience Program	
	Ventura Unified School District	Ventura	Ornamental Horticulture	Agriculture Biology Landscape Landscape Design Floral Design	
			Plant and Soil Science	Agriculture Biology Landscape AP Environmental Science	
	Ventura County Office of Education	Career Education Center	Capstone	Floral Design	
Adult School	Conejo Valley	N/A			
	Oxnard	N/A			
	Simi Valley	N/A			
	VACE	N/A			
Community College	College	Classes	AA/AS	Certificate of Accomplishment	Proficiency Award
	Moorpark	Botany Zoology	Environmental Studies Exotic Animal Training Management	Exotic Animal Training Management	
	Oxnard	Marine Studies	Coastal Environmental Studies		
	Ventura	Environmental Studies/Resource Management	Biological Sciences Water Science	Biological Sciences Water Science	Biotechnician Environmental Studies

Arts, Media and Entertainment				
	District	High School	Pathway	Courses
High School	Conejo Valley Unified School District	Westlake	Media and Design Arts	Computer Graphics Advanced Computer Graphics
	Ojai Unified School District	Nordhoff	Media Arts Academy	Beginning Graphic Design Advanced Graphic Design Digital Imaging Digital Illustration/Intro to Animation Video Production
	Moorpark Unified School District	Moorpark	Media and Design Arts	Advanced Graphic Arts and Website Design AP Studio Art: 2-D Design
	Simi Valley Unified School District	Santa Susana	Digital Graphics and Publication	Basic Design Digital Photo AP Studio Art Graphics and Publication Graphic Design (ROP)
			Production and Managerial Arts (School of Technical Arts)	Basic Design Video Production Movie Production Video Editing Broadcasting Video Entrepreneur Stagecraft (ROP)
	Ventura County Office of Education	Career Education Center	Capstone	Graphic Communications App Development
Adult School	Conejo Valley	Adobe Production Graphics (Certificate) Photoshop Level I Photoshop Level II Illustrator Level I InDesign Level I		
	Oxnard	N/A		
	Simi Valley	Graphic Design Multimedia Video and Animation Production		
	VACE	Graphics Designer for Web Digital Multimedia Technician Studio Production Technician		

Arts, Media and Entertainment Continued					
Community College	College	Classes	AA/AS	Certificate of Accomplishment	Proficiency Award
	Moorpark	Journalism Commercial Photography	2-D Studio Art FTVM Production Graphic Design Multimedia Technical Theater	FTVM Production Graphic Design Multimedia Technical Theater	
	Oxnard	Digital Media Studies	2-D Studio Art TV, Filmmaking and Media Arts		
	Ventura		Photography	Photography	Technical Theater Production

Building Trades and Construction					
High School	District	High School	Pathway	Courses	
	Conejo Valley Unified School District	Conejo Valley Westlake Newbury Park Thousand Oaks	Cabinet Making and Wood	Wood I Wood II Cabinet Making (ROP)	
	Oxnard Union High School District	Adolfo Camarillo Oxnard	Cabinet Making and Wood	Wood I Wood II Cabinetmaking Production Technology	
		OHS	Green Technologies Academy	Wood A Wood B Project Lead the Way Engineering	
	Simi Valley Unified School District	Simi Valley	Wood Technology	Wood Advanced Wood Design	
	Ventura Unified School District	Buena	Cabinet Making and Wood	Wood I Wood II Wood III Cabinet Making	
		Ventura	Residential and Commercial Construction	Wood I Wood II	
Adult School	Conejo Valley	Woodworking/Refinishing			
	Oxnard	N/A			
	Simi Valley	N/A			
	VACE	N/A			
Community College	College	Classes	AA/AS	Certificate of Accomplishment	Proficiency Award
	Moorpark	N/A			
	Oxnard	N/A			
	Ventura	Construction Technology	Building Inspection Construction Management Industrial Design	Building Inspection Construction Management Industrial Design	Electrician Trainee

Finance and Business				
	District	School	Pathway	Courses
High School	Conejo Valley Unified School District	Newbury Park		Entrepreneurship
	Moorpark Unified School District	Moorpark	Moorpark	Virtual Enterprise/Business Seminar Introduction to Business and Computers Small Business Manager
	Oxnard Union High School District	Adolfo Camarillo	Accounting Services	Computer Foundations Exploring Business and Technology Basic Accounting Business Law
		Adolfo Camarillo Channel Islands	Banking and Related Services	Computer Foundations Exploring Business and Technology Business Accounting Business Law
	Simi Valley Unified School District	Santa Susana Royal Simi Valley	Business Education	Accounting I Accounting II Accounting III Accounting IV
		Royal Simi Valley	Business Education	Business Law Recordkeeping I Recordkeeping II
	Ventura Unified School District	Buena	Business Financial Management	Computer Applications Money Management Business Simulations Accounting
Adult School	Conejo Valley	Computerized Accounting Technician (Certificate) QuickBooks and Computerized Accounting (Certificate) QuickBooks Pro, Level I QuickBooks Pro, Level II Applied QuickBooks Bookkeeping Certificate Program Loan Signing Agent		
	Oxnard	Computerized Accounting		
	Simi Valley	Account Clerk Bookkeeper		

Community College	VACE	Accounting Clerk Computerized Financial Accounting Payroll Clerk Business Administration Business Administration and Management Business Manager/World Wide Web				
		Finance and Business Continued				
		College	Classes	AA/AS	Certificate of Accomplishment	Proficiency Award
		Moorpark	Accounting	Business		
		Oxnard	Accounting Business	Business Administration	Business Management	
		Ventura		Accounting Business Management	Accounting Business Management	Bookkeeping

Education, Child Development, and Family Services					
High School	District	School	Pathway	Courses	
	Conejo Valley Unified School District	Newbury Park, Thousand Oaks		Educational Aide for Young Children	
	Oxnard Union High School District	Adolfo Camarillo, Oxnard, Pacifica, Hueneme, Channel Islands, Rio Mesa	Child Development	Core A and B Developmental Psychology of Children and Adolescents A Developmental Psychology of Children and Adolescents B Vocation Pre-school Aide	
		Pacifica	Teaching, Educational, and Careers Academy	Intro to Educational Careers Teaching and Education I Teaching and Education II Educational Aide for Young Children	
Adult School	Santa Paula Unified School District	Santa Paula	Human Services Academy	Introduction to Human Services Child Development and Care Elementary Aide Internship Human Services Internship Preschool Aide Internship	
	Conejo Valley	N/A			
	Oxnard	N/A			
	Simi Valley	N/A			
Community College	VACE	N/A			
	College	Classes	AA/AS	Certificate of Accomplishment	Proficiency Award
	Moorpark		Child Development/ECE	Child Development/ECE Associate Teacher	
	Oxnard		Child Development Early Childhood Ed Human Services	Child Development Early Childhood Ed Human Services	
Community College	Ventura		Child Development	Child Development	

Engineering and Design					
High School	District	School	Pathway	Courses	
	Conejo Valley Unified School District	Thousand Oaks	Architecture and Structural Engineering	Computer Aided Drafting Architectural Design I Architectural Design II	
		Westlake	Architectural and Structural Engineering	Architectural Design	
	Oxnard Union High School District	Adolfo Camarillo	Architectural and Structural Engineering	Beginning Drafting Architectural Design Architecture II Computer Aided Drafting Technical Illusion	
		Hueneme	Engineering Design Pathway	Intro to Engineering and Design Intro to Engineering Computer Engineering/Multimedia Architecture and Design	
Adult School	Conejo Valley	N/A			
	Oxnard	N/A			
	Simi Valley	Introduction to CAD/CAM Programming CAD Drafting and Design: CAD Drafting principles, AutoCAD 2D, AutoCAD 3D Revit Architecture, Solidworks			
	VACE	Computer-Aided Design Technician Solid Works Technician			
Community College	College	Classes	AA/AS	Certificate of Accomplishment	Proficiency Award
	Moorpark			Engineering	
	Oxnard	N/A			
	Ventura	Architecture Drafting	Industrial Design/Manufacturing	Industrial Design/Manufacturing	

Energy and Utilities				
High School	District	School	Pathway	Courses
	N/A			
	N/A			
Adult School	Conejo Valley	N/A		
	Oxnard	N/A		
	Simi Valley	N/A		
	VACE	N/A		
Community College	College	Classes	AA/AS	Certificate of Accomplishment
	Moorpark			Photovoltaic Technology
	Oxnard		Environmental Control Technology	Environmental Control Technology
	Ventura	N/A		

Fashion and Interior Design					
	District	School	Pathway	Courses	
High School	Oxnard Union High School District	Adolfo Camarillo, Oxnard, Pacifica, Hueneme, Channel Islands, Rio Mesa	Fashion Design, Manufacturing, Merchandising	Core A and B Fashion Technology I Fashion Technology II Fashion Design (ROP) Entrepreneurship in Fashion	
	Ventura County Office of Education	Career Education Center	Capstone	Fashion Retail Merchandising Screen Printing	
Adult School	Conejo Valley	N/A			
	Oxnard	Clothing Upholstery			
	Simi Valley	N/A			
	VACE	N/A			
Community College	College	Classes	AA/AS	Certificate of Accomplishment	Proficiency Award
	Moorpark	N/A			
	Oxnard	N/A			
	Ventura	N/A			

Health Science and Technology				
High School	District	School	Pathway	Courses
	Moorpark	Moorpark HS	Health Science Academy	Health in Depth Health Issues
	Ojai Unified School District	Nordhoff	Health Science Academy	Health Medical Terminology Health Careers I and II Anatomy and Physiology Emergency First Responder
	Oxnard Union High School District	Pacifica	Health Science Academy	Health Science Survey Medical Technology Applied Medical English
	Simi Valley Unified School District	Simi Valley	Medical and Health Careers Academy	Health Careers Survey Medical Terminology Pharmacology Anatomy and Physiology Medical and Health Careers Internship
	Ventura Unified School District	Foothill	Bio Tech Research and Development	Bio Science Survey Medical Technology Bio Technology
	Ventura County Office of Education	Career Education Center		Health Careers Medical Assistant Nurse Assistant I Nurse Assistant II Dental Assistant Emergency First Responder

Health Science and Technology Continued

Adult School	Conejo Valley	Administrative and Clinical Medical Assistant (Certificate) Administrative Medical Assistant (Certificate) Clinical Medical Assistant (Certificate) Administrative Medical Assistant/Billing and Coding Specialist (Eligible for Test) Clinical Medical Assistant/Phlebotomy Technician I (Eligible for Test) Phlebotomy Technician I (Certificate) Medical Laboratory Assistant Phlebotomy Skills Workshop Medical Insurance Billing and Coding (Certificate and Eligible for Test) Pharmacy Technician Emergency Medical Technician Physical Therapy Aide Certified Caregiver Training (Certificate) Heartsaver CPR Heartsaver First Aid BLS Healthcare Provider CPR Pediatric First Aid/CPR
	Oxnard	Pharmacy Technician Externship Certified Nursing Assistant/ Home Health Aide Medical Terminology CPR Medical Assistant Back Office Medical Assistant Front Office
	Simi Valley	Dental Technologist (Certificate): Intro to Dental Technology, Removable Prosthodontic Appliances, Fixed Prothodontic Appliances Advanced Dental Technology Coronal Polishing California Radiation Safety Course Pit and Fissure Sealants EMT (Certificate): EMT Basic, EMT Skills Testing Basic Life Support for Healthcare Providers Electrocardiography Technician (Eligible for Test) Medical Assistant (Eligible for test) Medical Insurance Billing/Insurance Clerk Medical Terminology Nurse Assistant (Eligible for test) Home Health Aide Pharmacy Technician Phlebotomy Program Surgical Technologist Physical Therapy Aide Respiratory Care Advanced Practitioner Respiratory Therapist (Eligible for Test)

	VACE	Back Office Medical Assistant Front/Back Office Medical Assistant Front Office Medical Assistant Medical Receptionist Pharmacy Technician Phlebotomy, Basic Phlebotomy, Advanced			
Health Science and Technology Continued					
Community College	College	Classes	AA/AS	Certificate of Accomplishment	Proficiency Award
	Moorpark	Anatomy Physiology Health Education Health Sciences Nutritional Science	Kinesiology Exercise Science Registered Nurse Radiation Technology	Fitness Specialist Nuclear Medicine	
	Oxnard	Anatomy Physiology Health Education	Dental Assisting Dental Hygiene Kinesiology	Dental Assisting	Emergency Medical Technician
	Ventura	Anatomy Physiology Emergency Medical Technician Health Education Health Sciences Kinesiology Physiology	Medical Assistant Administrative Medical Assistant Multi-Skilled Nursing Science Paramedic	Medical Assistant Administrative Medical Assistant Multi-Skilled Paramedic	Medical Insurance Billing Reception Skills Holistic Studies

Hospitality and Tourism					
High School	District	School	Pathway	Courses	
	Simi Valley Unified School District	Royal, Simi Valley	Family and Consumer Science	Foods and Nutrition Foods and Nutrition II Food Service Lab Aide	
	Conejo Valley School District	Newbury Park, Westlake	Food Services and Hospitality	Food and Nutrition I Food and Nutrition II Culinary Arts	
	Ventura Unified School District	Ventura	Food Services and Hospitality	Foods and Nutrition Foods and Nutrition Science Culinary Arts I Culinary Arts II	
	Oxnard Union High School District	Adolfo Camarillo, Oxnard, Pacifica, Hueneme, Channel Islands, Rio Mesa	Food Services and Hospitality	Core A and B Regional Cuisine Senior Foods Food Science International Cuisine Hospitality and Tourism Culinary Arts	
		Pacifica	Food Services and Hospitality	Core A Intro to Culinary Arts Regional Cuisine International Cuisine Intro to Baking and Pastry Culinary Arts	
Adult School	Conejo Valley	Nutrition 101			
	Oxnard	N/A			
	Simi Valley	N/A			
	VACE	N/A			
Community College	College	Classes	AA/AS	Certificate of Accomplishment	Proficiency Award
	Moorpark	N/A			
	Oxnard		Culinary Arts Restaurant Management	Culinary Arts Restaurant Management	
	Ventura	N/A			

Information Technology				
High School	District	School	Pathway	Courses
	Conejo Valley Unified School District	Conejo Valley, Newbury Park, Thousand Oaks	Information Support and Services	Personal Computing I Personal Computing II
		Newbury Park	Information Technology	Webpage Design
		Newbury Park, Thousand Oaks	Programs and Systems Development	Computer Programming I Computer Programming II
		Conejo Valley, Thousand Oaks	Information Support and Services	Microsoft Computer Applications
	Simi Valley Unified School District	Santa Susana, Royal High School, Simi Valley	Computer Education	AP Computer Science Computer Apps I Computer Apps II
		Santa Susana	Computer Education	AP Computer Science Computer Apps I Computer Apps II
			Academy of Computer Programming	Computer Programming I Computer Programming II Computer Programming III AP Computer Science
			Internet Development	Web-site Design Graphics and Publication Webmaster (ROP)
	Ventura Unified School District	Buena	Media Support and Services	Computer Applications Web Design Web Design II
		Ventura	Computer Hardware and Electrical	Computer Repair Network Technology Robotics
		Ventura	Software and Systems Development	Keyboarding and Computer Apps AP Computer Science Robotics Education in the Digital Age
		Foothill	Media Support and Services	Education in the Digital Age Web Design I Web Design II

Oxnard Union High School District	Adolfo Camarillo, Oxnard, Pacifica, Hueneme, Channel Islands, Rio Mesa	Information Support and Services	Computer Foundations Computer Applications Internet Applications Computer Security Microsoft Office Certification
---	--	----------------------------------	---

DRAFT

Information Technology Continued

		Adolfo Camarillo, Oxnard, Pacifica, Hueneme, Channel Islands, Rio Mesa	Media Support and Services	Computer Foundations Computer Applications Multi Media Production I and II Web Design I Web Design II Desktop Publishing Webmaster/Internet OC
		Adolfo Camarillo, Oxnard, Pacifica, Hueneme, Channel Islands, Rio Mesa	Networking Pathway	Computer Foundations Computer Applications Internet Applications Network Technology
		Adolfo Camarillo, Oxnard, Pacifica, Hueneme, Channel Islands, Rio Mesa	Software and Systems Development	Computer Foundations Computer Applications Computer Programming A Computer Programming B Advanced Programming
	Ventura County Office of Education	Career Education Center	Capstone	Computer Business Software App Design Graphic Communications
	Conejo Valley	Computer Basics Microsoft Level I Microsoft Level II Website Creation and Maintenance Website Creation and Maintenance + Adobe Graphics Microsoft Word I Microsoft Word II Microsoft Word III Microsoft Office PowerPoint Excel I Excel II Excel III Windows 7 Windows 8 Access Database Basics Access Table Rules and Queries Access Forms and Reports Dreamweaver Website Code, Beginning Photo Optimization for the Web WordPress Level I		

DRAFT

Information Technology Continued

Adult School	Simi Valley	Keyboarding Computer Literacy Intro to PC PC Computer Operator Specialist Access I, II Excel I, II Outlook PowerPoint Publisher Windows Word I, II Intro to HTML Cascading Style Sheets			
	VACE	Computer Support Technician Microsoft Certified Systems Administrator Network Support Technician Computerized Office Professional Graphics Designer for Web Microsoft Office Basics			
Community College	College	Classes	AA/AS	Certificate of Accomplishment	Proficiency Award
	Moorpark	Computer Information Systems Computer Science	Computer Network Systems Engineer	Advanced Network Specialist Windows Engineering	Basic Network Specialist Cisco System Networks Associate Windows Administration
	Oxnard		Computer Networking	Computer Networking	Office Technologies
	Ventura	Computer Science			

Manufacturing and Product Development				
	District	School	Pathway	Courses
High School	Conejo Valley Unified School District	Thousand Oaks	Machine and Forming Tech	Metals I Metals II Metals III Metals IIII
	Oxnard Union School District	Rio Mesa	Machine and Forming Tech	Beginning Manufacturing Advanced Manufacturing Manufacturing and Product Development
	Simi Valley Unified School District	Simi Valley	Industrial Technology	Manufacturing Technology
	Simi Valley Unified School District	Royal	Industrial Technology	Furniture and Cabinet Construction
	Simi Valley Unified School District	Royal, Simi Valley	Industrial Technology	Wood Design I Wood Design II Woodshop Manager
	Ventura Unified School District	Buena	Welding Technology	Metal I Metal II Metal III Industrial Plant Welding
	Ventura Unified School District	Ventura	Machine and Forming Tech	Metal I Metal II CAD for Manufacturing
	Ventura County Office of Education	Career Education Center	Capstone	Welding
Adult School	Conejo Valley	Intro to Metalworking		
	Oxnard	Welding		
	Simi Valley	Basic Machine Shop (Certificate) CNC operations and Programming (certificate) Intro to MasterCAM (certificate) Intro to GibbsCAM(Certificate) Master Welding Course (Certificate) Beginning Welder Advanced Welding Welding Fabricator		
	VACE	N/A		

Manufacturing and Product Development Continued					
Community College	College	Classes	AA/AS	Certificate of Accomplishment	Proficiency Award
	Moorpark			Biotech Manufacturing	
	Oxnard	N/A			
	Ventura			Welding	CNC Machine operator Manufacturing Applications Welding

Marketing, Sales and Service					
High School	District	School	Pathway		Courses
	Conejo Valley School District	Thousand Oaks (ETHOS)	Entrepreneurship		Entrepreneurship Sports and Entertainment Marketing Economics/Virtual Enterprise
	Oxnard Union High School District	Adolfo Camarillo, Oxnard, Pacifica, Hueneme, Channel Islands, Rio Mesa	Marketing/Entrepreneurship/Self -Employment/Professional Sales		Computer Foundations Exploring Business and Technology Intro to Accounting Marketing Business Law Economics of Business Ownership ROP Fashion Retail Merchandising
Adult School	Conejo Valley	Tricks and Tips for SEO Notary in One Day (Eligible for Test)			
	Oxnard	N/A			
	Simi Valley	Internet for business Telephone techniques Customer Service Representative Notary Public (Eligible for test) Real Estate Agent/Broker (Pre-license course)			
	VACE	Computerized Marketing Support Technician Web Business Graphics/Desktop Publishing Customer Services Representative/Collections			
Community College	College	Classes	AA/AS	Certificate of Accomplishment	Proficiency Award
	Moorpark				
	Oxnard				
	Ventura				Reception Skills

Public Service				
High School	District	School	Pathway	Courses
	Moorpark Unified School District	Moorpark		Fire Cadet
	Oxnard Union School District	Oxnard	Law and Public Services	Intro to Legal Systems Criminal Justice Forensics
Adult School	Conejo Valley	N/A		
	Oxnard	N/A		
	Simi Valley	Legal Office Procedures Legal Terminology		
	VACE	Legal Secretary		
Community College	College	Classes	AA/AS	Certificate of Accomplishment
	Moorpark			Criminal Justice
	Oxnard		Fire Technology Paralegal Studies	Fire Technology Paralegal Studies
	Ventura		Criminal Justice Human Services	Criminal Justice Human Services
				Social Services Affiliate Social Welfare Specialist

Transportation					
High School	District	School	Pathway	Courses	
	Simi Valley Unified School District	Simi Valley	Industrial Technology	Automotive Essentials Automotive Advanced	
	Ventura Unified School District	Buena	Vehicle Maintenance and Repair	Auto II Auto Technology Auto Technology	
		Ventura	Systems Diagnostics and Service	Auto Mechanics I Auto Mechanics II Auto Service	
	Oxnard Union School District	Channel Islands, Oxnard	Operations	Intro to Auto Intermediate Auto Advanced Auto ROP	
		Channel Islands, Oxnard	Structural Repair and Refinishing	Intro to Auto Intermediate Auto Advanced Auto ROP ROP Collision and Repair	
		Channel Islands, Oxnard	Systems Diagnostics and Service	Intro to Auto Intermediate Auto Advanced Auto ROP Auto Service	
Adult School	Conejo Valley	N/A			
	Oxnard	Auto Service Auto Body/Auto Paint			
	Simi Valley	N/A			
	VACE	N/A			
Community College	College	Classes	AA/AS	Certificate of Accomplishment	Proficiency Award
	Moorpark	N/A			
	Oxnard		Automotive Body and Fender Repair Automotive Technology	Automotive Body and Fender Repair Automotive Technology	
	Ventura		Automotive Technology	Automotive Technology State Smog Technician	

CLEAN/GREEN

		2013 Education and Training Level**	2010 VENTURA COUNTY Median Annual Wages***	2020 CALIFORNIA Employment Growth Projection	CALIFORNIA Average Annual Job Openings****	2020 VENTURA COUNTY Employment Growth Projection	VENTURA COUNTY Average Annual Job Openings****	2010 CALIFORNIA Average Annual Employment	2010 VENTURA COUNTY Average Annual Employment	2010-2013 WIA Placements	2010-2013 Training Related Placements
SOC Code*	Occupations										
53-7064	Packers and Packagers, Hand	Less Than H.S.	\$19,720	15.7	4,140	14.8	82	93,500	1,890	7	1
45-4011	Forest and Conservation Workers	H.S. Diploma + OJT	\$21,072	0.0	90	0.0	3	3,600	130	0	0
51-9198	Helpers--Production Workers	Less Than H.S.	\$21,855	7.9	970	14.3	22	39,400	700	8	4
45-2091	Agricultural Equipment Operators	Less Than H.S.	\$22,250	2.1	470	32.1	53	14,000	840	0	0
45-2000	Agricultural Workers	Less Than H.S.	\$24,000	1.7	9,460	21.5	864	297,300	16,740	0	0
47-3019	Helpers, Construction Trades, All Other	Less Than H.S.	\$24,130	23.8	110	32.5	23	2,100	400	0	0
49-9098	Helpers--Installation, Maintenance, and Repair Workers	H.S. Diploma + OJT	\$24,772	16.9	820	17.4	14	13,000	230	2	2
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	Less Than H.S.	\$24,943	19.7	12,030	19.5	174	232,700	3,380	7	1
37-3011	Landscaping and Groundskeeping Workers	Less Than H.S.	\$25,024	21.6	5,440	15.8	146	138,500	4,370	2	0
51-2092	Team Assemblers	H.S. Diploma + OJT	\$25,210	8.8	2,180	7.7	58	76,400	2,070	13	6
47-3014	Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	Less Than H.S.	\$25,926	23.1	120	N/A	N/A	2,600	N/A	0	0
51-2099	Assemblers and Fabricators	H.S. Diploma + OJT	\$27,555	11.2	740	12.4	33	24,200	1,050	14	4
51-2023	Electromechanical Equipment Assemblers	H.S. Diploma + OJT	\$28,493	13.3	170	0.0	3	6,000	130	9	6
47-3016	Helpers--Roofers	Less Than H.S.	\$29,219	-7.7	30	N/A	N/A	1,300	N/A	0	0
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	H.S. Diploma + OJT	\$29,329	-2.0	110	8.3	4	5,100	120	2	1
43-5071	Shipping, Receiving, and Traffic Clerks	H.S. Diploma + OJT	\$29,778	5.6	2,790	4.3	62	89,900	2,070	9	4
51-2022	Electrical and Electronic Equipment Assemblers	H.S. Diploma + OJT	\$29,870	12.2	580	-3.6	20	22,200	1,370	52	45
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	Less Than H.S.	\$30,164	45.7	260	N/A	N/A	3,500	N/A	0	0
47-3012	Helpers--Carpenters	Less Than H.S.	\$30,908	51.6	240	N/A	N/A	3,100	N/A	0	0
47-3015	Helpers--Pipefitters, Plumbers, Pipefitters, and Steamfitters	H.S. Diploma + OJT	\$31,266	36.4	210	N/A	N/A	3,300	N/A	0	0
47-3013	Helpers--Electricians	H.S. Diploma + OJT	\$31,452	21.4	190	27.8	10	4,200	180	1	1
19-4011	Agricultural and Food Science Technicians	Associate's Degree	\$31,656	6.7	130	12.5	4	3,000	80	2	0
51-2031	Engine and Other Machine Assemblers	H.S. Diploma + OJT	\$33,638	14.3	50	0.0	2	1,400	60	0	0
53-7051	Industrial Truck and Tractor Operators	Less Than H.S.	\$33,995	15.2	2,570	19.6	68	59,100	1,430	3	2
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	H.S. Diploma + OJT	\$36,100	13.4	1,690	7.8	45	47,900	1,540	7	3
19-4093	Forest and Conservation Technicians	Associate's Degree	\$36,126	-2.7	310	-7.1	6	7,400	140	0	0
43-4051	Customer Service Representatives	H.S. Diploma + OJT	\$36,347	18.6	9,260	22.1	217	197,300	4,300	87	33
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	H.S. Diploma + OJT	\$36,514	21.1	390	16.7	7	9,500	180	5	5
51-4121	Welders, Cutters, Solderers, and Brazers	H.S. Diploma + OJT	\$37,621	11.1	820	20.4	23	21,700	490	12	10
49-9071	Maintenance and Repair Workers, General	H.S. Diploma + OJT	\$38,449	12.7	3,510	11.2	58	113,000	1,960	0	0
47-2061	Construction Laborers	Less Than H.S.	\$38,491	19.5	3,020	24.3	69	109,500	2,140	5	1

Ventura County Occupational Employment Data & Growth Projections

CLEAN/GREEN

		2013 Education and Training Level**	2010 VENTURA COUNTY Median Annual Wages***	2020 CALIFORNIA Employment Growth Projection	CALIFORNIA Average Annual Job Openings****	2020 VENTURA COUNTY Employment Growth Projection	VENTURA COUNTY Average Annual Job Openings****	2010 CALIFORNIA Average Annual Employment	2010 VENTURA COUNTY Average Annual Employment	2010-2013 WIA Placements	2010-2013 Training Related Placements
SOC Code*	Occupations										
53-6099	Transportation Workers, All Other	H.S. Diploma + OJT	\$40,194	16.0	230	18.2	11	5,000	220	0	0
51-4041	Machinists	H.S. Diploma + OJT	\$40,242	13.1	950	10.0	23	30,500	800	14	13
47-4041	Hazardous Materials Removal Workers	H.S. Diploma + OJT	\$40,284	18.6	190	0.0	3	4,300	60	0	0
49-9043	Maintenance Workers, Machinery	H.S. Diploma + OJT	\$40,578	4.9	140	12.5	5	6,100	160	3	1
53-3021	Bus Drivers, Transit and Intercity	H.S. Diploma + OJT	\$41,747	14.3	890	6.3	11	26,600	480	1	0
49-2092	Electric Motor, Power Tool, and Related Repairers	Vocational / OJT	\$41,903	7.7	20	N/A	N/A	1,300	N/A	0	0
53-7081	Refuse and Recyclable Material Collectors	Less Than H.S.	\$42,486	21.7	780	N/A	N/A	15,200	N/A	0	0
19-4031	Chemical Technicians	Associate's Degree	\$44,018	14.5	180	N/A	N/A	6,200	N/A	0	0
51-9011	Chemical Equipment Operators and Tenders	H.S. Diploma + OJT	\$44,949	8.0	60	N/A	N/A	2,500	N/A	0	0
45-2011	Agricultural Inspectors	Bachelor's Degree	\$45,509	4.3	80	N/A	N/A	2,300	N/A	2	2
47-2181	Roofers	Less Than H.S.	\$48,253	3.0	400	13.9	12	16,800	360	1	0
43-5061	Production, Planning, and Expediting Clerks	H.S. Diploma + OJT	\$48,503	9.6	1,390	4.5	21	38,600	660	4	2
19-4091	Environmental Science and Protection Technicians, Including Health	Associate's Degree	\$50,108	26.5	230	37.5	6	3,400	80	0	0
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	Vocational / OJT	\$51,356	27.1	920	27.5	23	20,700	510	0	0
13-1022	Wholesale and Retail Buyers, Except Farm Products	H.S. Diploma + OJT	\$51,604	17.0	680	18.5	13	15,900	270	3	0
17-3026	Industrial Engineering Technicians	Associate's Degree	\$51,790	15.6	160	N/A	N/A	4,500		0	0
17-3024	Electro-Mechanical Technicians	Associate's Degree	\$52,618	13.9	120	N/A	N/A	3,600		6	3
47-2152	Plumbers, Pipefitters, and Steamfitters	H.S. Diploma + OJT	\$53,543	17.2	1,670	26.7	33	36,100	600	7	6
17-3011	Architectural and Civil Drafters	Associate's Degree	\$54,227	-0.8	250	0.0	3	12,700	170	2	2
17-3013	Mechanical Drafters	Associate's Degree	\$54,580	10.4	140	13.3	5	4,800	150	3	2
17-3012	Electrical and Electronics Drafters	Associate's Degree	\$55,771	10.0	120	0.0	3	4,000	120	3	3
17-3027	Mechanical Engineering Technicians	Associate's Degree	\$56,163	10.0	110	6.7	4	4,000	150	0	0
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	Vocational / OJT	\$59,680	10.6	230	0.0	3	6,600	140	1	0
47-2111	Electricians	H.S. Diploma + OJT	\$60,216	15.7	2,010	22.1	33	47,200	680	2	1
17-3023	Electrical and Electronics Engineering Technicians	Associate's Degree	\$61,504	8.3	570	-1.2	16	20,400	810	7	4
17-3025	Environmental Engineering Technicians	Associate's Degree	\$61,522	18.5	100	30.8	6	2,700	130	0	0
17-3022	Civil Engineering Technicians	Associate's Degree	\$61,693	8.5	200	7.1	5	7,100	140	0	0
27-1021	Commercial and Industrial Designers	Bachelor's Degree	\$63,105	22.5	210	26.7	9	4,000	150	1	1
13-2099	Financial Specialists, All Other	Bachelor's Degree	\$63,406	13.2	810	30.1	54	23,500	1,030	3	2
27-3031	Public Relations Specialists	Bachelor's Degree	\$63,441	21.1	1,130	14.7	14	23,700	340	1	0
17-3029	Engineering Technicians, Except Drafters, All Other	Associate's Degree	\$64,283	9.7	270	0.0	7	9,300	350	2	2
51-8021	Stationary Engineers and Boiler Operators	H.S. Diploma + OJT	\$64,384	5.9	100	0.0	1	3,400	60	0	0
13-1151	Training and Development Specialists	Bachelor's Degree	\$64,471	31.9	910	32.5	20	18,800	400	0	0
47-2073	Operating Engineers and Other Construction Equipment Operators	H.S. Diploma + OJT	\$65,711	23.1	1,020	28.1	29	22,100	570	0	0

Ventura County Occupational Employment Data & Growth Projections

CLEAN/GREEN

		2013 Education and Training Level**	2010 VENTURA COUNTY Median Annual Wages***	2020 CALIFORNIA Employment Growth Projection	CALIFORNIA Average Annual Job Openings****	2020 VENTURA COUNTY Employment Growth Projection	VENTURA COUNTY Average Annual Job Openings****	2010 CALIFORNIA Average Annual Employment	2010 VENTURA COUNTY Average Annual Employment	2010-2013 WIA Placements	2010-2013 Training Related Placements
SOC Code*	Occupations										
13-1199	Business Operations Specialists, All Other	H.S. Diploma + OJT	\$67,213	13.6	4,560	14.6	106	139,100	3,150	1	1
19-1013	Soil and Plant Scientists	Bachelor's Degree	\$69,582	26.3	120	N/A	N/A	1,900	N/A	0	0
41-3031	Securities, Commodities, and Financial Services Sales Agents	Bachelor's Degree	\$71,314	17.4	1,710	38.0	46	38,000	710	0	0
47-4011	Construction and Building Inspectors	H.S. Diploma + OJT	\$72,234	18.6	470	13.6	9	9,700	220	1	1
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	H.S. Diploma + OJT	\$73,957	21.7	2,060	26.4	43	46,000	870	0	0
19-2041	Environmental Scientists and Specialists, Including Health	Bachelor's Degree	\$74,978	23.1	680	22.5	21	13,000	400	0	0
17-1012	Landscape Architects	Bachelor's Degree	\$76,000	12.5	110	N/A	N/A	3,200	N/A	1	1
19-2031	Chemists	Bachelor's Degree	\$76,659	11.0	480	0.0	8	10,900	250	0	0
19-3051	Urban and Regional Planners	Master's Degree	\$78,710	23.6	450	13.3	6	8,900	150	0	0
13-1081	Logisticians	Bachelor's Degree	\$78,861	33.8	720	11.5	19	13,600	610	1	1
29-9011	Occupational Health and Safety Specialists	Bachelor's Degree	\$80,890	14.3	310	7.7	6	6,300	130	1	1
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	Vocational / OJT	\$83,825	25.0	60	N/A	N/A	1,200	N/A	0	0
13-1111	Management Analysts	Bachelor's Degree	\$84,448	22.5	3,220	16.0	55	82,800	1,690	1	1
11-3071	Transportation, Storage, and Distribution Managers	H.S. Diploma + OJT	\$84,677	14.0	460	14.3	9	12,100	210	0	0
51-8013	Power Plant Operators	H.S. Diploma + OJT	\$84,797	12.1	160	0.0	2	3,300	50	0	0
17-1022	Surveyors	Bachelor's Degree	\$85,245	15.7	190	20.0	4	5,100	100	0	0
17-2081	Environmental Engineers	Bachelor's Degree	\$86,165	25.0	280	20.0	8	6,000	200	0	0
19-2042	Geoscientists, Except Hydrologists and Geographers	Bachelor's Degree	\$87,326	25.5	260	25.0	8	4,700	120	0	0
13-2051	Financial Analysts	Bachelor's Degree	\$88,146	24.3	1,370	28.3	22	30,000	460	2	1
17-2141	Mechanical Engineers	Bachelor's Degree	\$90,973	9.8	940	6.4	30	22,500	780	3	3
17-2112	Industrial Engineers	Bachelor's Degree	\$92,771	11.1	630	3.1	8	19,000	320	1	0
19-2032	Materials Scientists	Bachelor's Degree	\$92,999	15.4	60	N/A	N/A	1,300	N/A	0	0
17-2051	Civil Engineers	Bachelor's Degree	\$93,988	12.6	1,230	20.4	22	37,200	540	0	0
11-3051	Industrial Production Managers	Bachelor's Degree	\$94,671	10.1	590	11.8	23	17,800	680	1	0
17-2131	Materials Engineers	Bachelor's Degree	\$98,576	17.2	140	N/A	N/A	2,900	N/A	0	0
17-2071	Electrical Engineers	Bachelor's Degree	\$102,201	10.5	740	1.9	15	21,000	530	0	0
11-9021	Construction Managers	Associate's Degree	\$102,300	14.1	1,220	15.0	22	59,600	1,000	6	5
17-2072	Electronics Engineers, Except Computer	Bachelor's Degree	\$106,211	12.9	1,170	-7.8	37	31,800	1,530	1	0
11-3131	Training and Development Managers	Bachelor's Degree	\$107,568	18.5	110	16.7	2	2,700	60	0	0
25-1032	Engineering Teachers, Postsecondary	Doctoral Degree	\$109,773	12.9	90	N/A	N/A	3,100	N/A	0	0

Ventura County Occupational Employment Data & Growth Projections

CLEAN/GREEN

		2013 Education and Training Level**	2010 VENTURA COUNTY Median Annual Wages***	2020 CALIFORNIA Employment Growth Projection	CALIFORNIA Average Annual Job Openings****	2020 VENTURA COUNTY Employment Growth Projection	VENTURA COUNTY Average Annual Job Openings****	2010 CALIFORNIA Average Annual Employment	2010 VENTURA COUNTY Average Annual Employment	2010-2013 WIA Placements	2010-2013 Training Related Placements
SOC Code*	Occupations										
17-2011	Aerospace Engineers	Bachelor's Degree	\$112,911	13.3	720	0.0	2	20,300	100	2	2
11-9199	Managers, All Other	H.S. Diploma + OJT	\$119,786	11.7	2,980	14.0	84	87,900	2,360	4	4
11-3031	Financial Managers	Bachelor's Degree	\$121,491	13.5	2,210	18.7	51	69,600	1,390	2	1
11-2021	Marketing Managers	Bachelor's Degree	\$135,742	18.6	1,540	16.2	17	32,200	370	7	3
11-9121	Natural Sciences Managers	Bachelor's Degree	\$143,098	17.0	680	7.0	29	8,800	430	0	0
11-9041	Architectural and Engineering Managers	Bachelor's Degree	\$144,681	13.9	1,010	9.6	15	30,200	520	0	0

*2010 Standard Occupational Classifications and Occupational Information Network provided by the Department of Labor

**Occupational training and education classifications were developed by the Bureau of Labor Statistics (BLS).

***Median Annual Wages are the estimated 50th percentile of the distribution of wages; 50 percent of workers in an occupation earn wages below, and 50 percent earn wages above the median wage. The wages are from 2010-1st quarter and do not include self-employed or unpaid family workers.

****Average Annual Job Openings includes new jobs and replacement needs.

Data Source: State of California Employment Development Department - Labor Market Info

Additional Information:

Living Wage in Ventura County as of December 2013 (California Budget Project)

\$34,109.00 Single Adult

\$79,549.00 Single-Parent Family*

\$64,203.00 Two-Parent Family* (one working)

\$85,713.00 Two-Working-Parent Family*

*All family types are assumed to have two children.

Current Employment Data
WIA Placement and Training Data
2020 Growth Projection Data

JTA 53 Job Readiness Training	JTA 54 Occupational Skills Training	JTA 55 On-the-Job Training	OS License	OS Certificate	Notes
0	0	0	0	3	
0	0	0	0	0	
0	0	0	1	2	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	1	0	0	
0	0	0	0	3	
0	0	0	0	0	
0	0	0	0	6	
0	0	0	0	0	
0	0	0	0	7	
0	0	0	0	6	
0	0	0	0	0	
0	0	0	0	1	
0	1	4	0	2	
0	72	4	3	37	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	2	0	0	
0	0	0	0	1	
0	0	0	0	0	
0	1	0	0	1	
0	0	2	0	5	
0	0	0	0	0	
0	6	11	0	22	
0	30	0	0	5	
0	3	0	0	10	
0	0	0	0	0	
0	0	0	0	0	

JTA 53 Job Readiness Training	JTA 54 Occupational Skills Training	JTA 55 On-the-Job Training	OS License	OS Certificate	Notes
0	0	0	0	0	
0	10	0	0	12	
0	0	0	0	0	
0	0	1	0	2	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	1	
0	0	0	0	0	
0	0	2	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	1	
0	0	0	0	0	
0	3	2	0	3	
0	0	6	0	0	
0	3	0	0	2	
0	5	2	0	3	
0	3	0	0	3	
0	0	0	0	0	
0	0	1	0	0	
0	0	1	0	0	
0	8	3	0	2	
0	0	0	0	0	
0	0	0	0	0	
0	1	0	0	1	
0	0	0	0	1	
0	0	0	0	0	
0	1	0	0	2	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	

JTA 53 Job Readiness Training	JTA 54 Occupational Skills Training	JTA 55 On-the-Job Training	OS License	OS Certificate	Notes
0	1	0	0	1	
0	0	0	0	0	
0	0	0	0	0	
0	3	0	0	1	
0	0	0	0	0	
0	0	0	0	0	
0	1	0	0	1	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	1	
0	0	0	0	1	
0	0	0	0	0	
0	2	0	0	1	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	2	0	0	2	
0	3	0	0	2	
0	0	0	0	1	
0	0	0	0	0	
0	0	0	0	0	
0	2	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	3	0	0	3	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	

JTA 53 Job Readiness Training	JTA 54 Occupational Skills Training	JTA 55 On-the-Job Training	OS License	OS Certificate	Notes
0	0	2	0	0	
0	23	1	0	2	
0	0	0	0	1	
0	0	1	0	2	
0	0	0	0	0	
0	0	0	0	0	

Bureau of Labor Statistics

On behalf of the Standard Occupational Classification Policy Committee (SOCPC)

February 2010

Questions should be emailed to soc@bls.gov

SOC Code	SOC Title	SOC Definition
17-2011	Aerospace Engineers	Perform engineering duties in designing, constructing, and testing aircraft, missiles, and spacecraft. May conduct basic and applied research to evaluate adaptability of materials and equipment to aircraft design and manufacture. May recommend improvements in testing equipment and techniques.
45-2091	Agricultural Equipment Operators	Drive and control farm equipment to till soil and to plant, cultivate, and harvest crops. May perform tasks, such as crop baling or hay bucking. May operate stationary equipment to perform post-harvest tasks, such as husking, shelling, threshing, and ginning.
45-2011	Agricultural Inspectors	Inspect agricultural commodities, processing equipment, and facilities, and fish and logging operations, to ensure compliance with regulations and laws governing health, quality, and safety.
45-2099	Agricultural Workers, All Other	All agricultural workers not listed separately.
17-3011	Architectural and Civil Drafters	Prepare detailed drawings of architectural and structural features of buildings or drawings and topographical relief maps used in civil engineering projects, such as highways, bridges, and public works. Use knowledge of building materials, engineering practices, and mathematics to complete drawings.
51-2099	Assemblers and Fabricators, All Other	All assemblers and fabricators not listed separately.
53-3021	Bus Drivers, Transit and Intercity	Drive bus or motor coach, including regular route operations, charters, and private carriage. May assist passengers with baggage. May collect fares or tickets.
13-1199	Business Operations Specialists, All Other	All business operations specialists not listed separately.
51-9011	Chemical Equipment Operators and Tenders	Operate or tend equipment to control chemical changes or reactions in the processing of industrial or consumer products. Equipment used includes devulcanizers, steam-jacketed kettles, and reactor vessels. Excludes "Chemical Plant and System Operators" (51-8091).
19-4031	Chemical Technicians	Conduct chemical and physical laboratory tests to assist scientists in making qualitative and quantitative analyses of solids, liquids, and gaseous materials for research and development of new products or processes, quality control, maintenance of environmental standards, and other work involving experimental, theoretical, or practical application of chemistry and related sciences.
19-2031	Chemists	Conduct qualitative and quantitative chemical analyses or experiments in laboratories for quality or process control or to develop new products or knowledge. Excludes "Geoscientists, Except Hydrologists and Geographers" (19-2042) and "Biochemists and Biophysicists" (19-1021).
17-3022	Civil Engineering Technicians	Apply theory and principles of civil engineering in planning, designing, and overseeing construction and maintenance of structures and facilities under the direction of engineering staff or physical scientists.
17-2051	Civil Engineers	Perform engineering duties in planning, designing, and overseeing construction and maintenance of building structures, and facilities, such as roads, railroads, airports, bridges, harbors, channels, dams, irrigation projects, pipelines, power plants, and water and sewage systems. Includes architectural, structural, traffic, ocean, and geo-technical engineers. Excludes "Hydrologists" (19-2043).
27-1021	Commercial and Industrial Designers	Develop and design manufactured products, such as cars, home appliances, and children's toys. Combine artistic talent with research on product use, marketing, and materials to create the most functional and appealing product design.

51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	Operate computer-controlled machines or robots to perform one or more machine functions on metal or plastic work pieces.
19-1031	Conservation Scientists	Manage, improve, and protect natural resources to maximize their use without damaging the environment. May conduct soil surveys and develop plans to eliminate soil erosion or to protect rangelands. May instruct farmers, agricultural production managers, or ranchers in best ways to use crop rotation, contour plowing, or terracing to conserve soil and water; in the number and kind of livestock and forage plants best suited to particular ranges; and in range and farm improvements, such as fencing and reservoirs for stock watering. Excludes "Zoologists and Wildlife Biologists" (19-1023) and "Foresters" (19-1032).
47-4011	Construction and Building Inspectors	Inspect structures using engineering skills to determine structural soundness and compliance with specifications, building codes, and other regulations. Inspections may be general in nature or may be limited to a specific area, such as electrical systems or plumbing.
47-2061	Construction Laborers	Perform tasks involving physical labor at construction sites. May operate hand and power tools of all types: air hammers, earth tampers, cement mixers, small mechanical hoists, surveying and measuring equipment, and a variety of other equipment and instruments. May clean and prepare sites, dig trenches, set braces to support the sides of excavations, erect scaffolding, and clean up rubble, debris and other waste materials. May assist other craft workers. Construction laborers who primarily assist a particular craft worker are classified under "Helpers, Construction Trades" (47-3010). Excludes "Hazardous Materials Removal Workers" (47-4041).
11-9021	Construction Managers	Plan, direct, or coordinate, usually through subordinate supervisory personnel, activities concerned with the construction and maintenance of structures, facilities, and systems. Participate in the conceptual development of a construction project and oversee its organization, scheduling, budgeting, and implementation. Includes managers in specialized construction fields, such as carpentry or plumbing.
43-4051	Customer Service Representatives	Interact with customers to provide information in response to inquiries about products and services and to handle and resolve complaints. Excludes individuals whose duties are primarily installation, sales, or repair.
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	Set up, operate, or tend machines that cut or slice materials, such as glass, stone, cork, rubber, tobacco, food, paper, or insulating material. Excludes "Woodworking Machine Setters, Operators, and Tenders" (51-7040), "Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic" (51-4031), and "Textile Cutting Machine Setters, Operators, and Tenders" (51-6062).
17-3023	Electrical and Electronic Engineering Technicians	Apply electrical and electronic theory and related knowledge, usually under the direction of engineering staff, to design, build, repair, calibrate, and modify electrical components, circuitry, controls, and machinery for subsequent evaluation and use by engineering staff in making engineering design decisions. Excludes "Broadcast Technicians" (27-4012).
51-2022	Electrical and Electronic Equipment Assemblers	Assemble or modify electrical or electronic equipment, such as computers, test equipment telemetering systems, electric motors, and batteries.
17-3012	Electrical and Electronics Drafters	Prepare wiring diagrams, circuit board assembly diagrams, and layout drawings used for the manufacture, installation, or repair of electrical equipment.
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	Repair, test, adjust, or install electronic equipment, such as industrial controls, transmitters, and antennas. Excludes "Avionics Technicians" (49-2091), "Electronic Equipment Installers and Repairers, Motor Vehicles" (49-2096), and "Electrical and Electronics Installers and Repairers, Transportation Equipment" (49-2093).
17-2071	Electrical Engineers	Research, design, develop, test, or supervise the manufacturing and installation of electrical equipment, components, or systems for commercial, industrial, military, or scientific use. Excludes "Computer Hardware Engineers" (17-2061).
51-2031	Engine and Other Machine Assemblers	Construct, assemble, or rebuild machines, such as engines, turbines, and similar equipment used in such industries as construction, extraction, textiles, and paper manufacturing.
17-3029	Engineering Technicians, Except Drafters, All Other	All engineering technicians, except drafters, not listed separately.

17-3025	Environmental Engineering Technicians	Apply theory and principles of environmental engineering to modify, test, and operate equipment and devices used in the prevention, control, and remediation of environmental problems, including waste treatment and site remediation, under the direction of engineering staff or scientist. May assist in the development of environmental remediation devices.
17-2081	Environmental Engineers	Research, design, plan, or perform engineering duties in the prevention, control, and remediation of environmental hazards using various engineering disciplines. Work may include waste treatment, site remediation, or pollution control technology.
19-4091	Environmental Science and Protection Technicians, Including Health	Perform laboratory and field tests to monitor the environment and investigate sources of pollution, including those that affect health, under the direction of an environmental scientist, engineer, or other specialist. May collect samples of gases, soil, water, and other materials for testing.
19-2041	Environmental Scientists and Specialists, Including Health	Conduct research or perform investigation for the purpose of identifying, abating, or eliminating sources of pollutants or hazards that affect either the environment or the health of the population. Using knowledge of various scientific disciplines, may collect, synthesize, study, report, and recommend action based on data derived from measurements or observations of air, food, soil, water, and other sources. Excludes "Zoologists and Wildlife Biologists" (19-1023), "Conservation Scientists" (19-1031), "Forest and Conservation Technicians" (19-4093), "Fish and Game Wardens" (33-3031), and "Forest and Conservation Workers" (45-4011).
13-2051	Financial Analysts	Conduct quantitative analyses of information affecting investment programs of public or private institutions.
13-2099	Financial Specialists, All Other	All financial specialists not listed separately.
19-4093	Forest and Conservation Technicians	Provide technical assistance regarding the conservation of soil, water, forests, or related natural resources. May compile data pertaining to size, content, condition, and other characteristics of forest tracts, under the direction of foresters; or train and lead forest workers in forest propagation, fire prevention and suppression. May assist conservation scientists in managing, improving, and protecting rangelands and wildlife habitats. Excludes "Conservation Scientists" (19-1031) and "Foresters" (19-1032).
45-4011	Forest and Conservation Workers	Under supervision, perform manual labor necessary to develop, maintain, or protect areas such as forests, forested areas, woodlands, wetlands, and rangelands through such activities as raising and transporting seedlings; combating insects, pests, and diseases harmful to plant life; and building structures to control water, erosion, and leaching of soil. Includes forester aides, seedling pullers, and tree planters.
19-2042	Geoscientists, Except Hydrologists and Geographers	Study the composition, structure, and other physical aspects of the Earth. May use geological, physics, and mathematics knowledge in exploration for oil, gas, minerals, or underground water; or in waste disposal, land reclamation, or other environmental problems. May study the Earth's internal composition, atmospheres, oceans, and its magnetic, electrical, and gravitational forces. Includes mineralogists, crystallographers, paleontologists, stratigraphers, geodesists, and seismologists.
47-4041	Hazardous Materials Removal Workers	Identify, remove, pack, transport, or dispose of hazardous materials, including asbestos, lead-based paint, waste oil, fuel, transmission fluid, radioactive materials, or contaminated soil. Specialized training and certification in hazardous materials handling or a confined entry permit are generally required. May operate earth-moving equipment or trucks.
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	Install or repair heating, central air conditioning, or refrigeration systems, including oil burners, hot-air furnaces, and heating stoves.
17-3026	Industrial Engineering Technicians	Apply engineering theory and principles to problems of industrial layout or manufacturing production, usually under the direction of engineering staff. May perform time and motion studies on worker operations in a variety of industries for purposes such as establishing standard production rates or improving efficiency.
17-2112	Industrial Engineers	Design, develop, test, and evaluate integrated systems for managing industrial production processes, including human work factors, quality control, inventory control, logistics and material flow, cost analysis, and production coordination. Excludes "Health and Safety Engineers, Except Mining Safety Engineers and Inspectors" (17-2111).

49-9041	Industrial Machinery Mechanics	Repair, install, adjust, or maintain industrial production and processing machinery or refinery and pipeline distribution systems. Excludes "Millwrights" (49-9044), "Mobile Heavy Equipment Mechanics, Except Engines" (49-3042), and "Maintenance Workers, Machinery" (49-9043).
11-3051	Industrial Production Managers	Plan, direct, or coordinate the work activities and resources necessary for manufacturing products in accordance with cost, quality, and quantity specifications.
53-7051	Industrial Truck and Tractor Operators	Operate industrial trucks or tractors equipped to move materials around a warehouse, storage yard, factory, construction site, or similar location. Excludes "Logging Equipment Operators" (45-4022).
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	Inspect, test, sort, sample, or weigh nonagricultural raw materials or processed, machined, fabricated, or assembled parts or products for defects, wear, and deviations from specifications. May use precision measuring instruments and complex test equipment.
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	Manually move freight, stock, or other materials or perform other general labor. Includes all manual laborers not elsewhere classified. Excludes "Material Moving Workers" (53-7011 through 53-7199) who use power equipment. Excludes "Construction Laborers" (47-2061) and "Helpers, Construction Trades" (47-3011 through 47-3019).
13-1081	Logisticians	Analyze and coordinate the logistical functions of a firm or organization. Responsible for the entire life cycle of a product, including acquisition, distribution, internal allocation, delivery, and final disposal of resources. Excludes "Transportation, Storage, and Distribution Managers" (11-3071).
51-4041	Machinists	Set up and operate a variety of machine tools to produce precision parts and instruments. Includes precision instrument makers who fabricate, modify, or repair mechanical instruments. May also fabricate and modify parts to make or repair machine tools or maintain industrial machines, applying knowledge of mechanics, mathematics, metal properties, layout, and machining procedures.
49-9071	Maintenance and Repair Workers, General	Perform work involving the skills of two or more maintenance or craft occupations to keep machines, mechanical equipment, or the structure of an establishment in repair. Duties may involve pipe fitting; boiler making; insulating; welding; machining; carpentry; repairing electrical or mechanical equipment; installing, aligning, and balancing new equipment; and repairing buildings, floors, or stairs. Excludes "Maintenance Workers, Machinery" (49-9043).
13-1111	Management Analysts	Conduct organizational studies and evaluations, design systems and procedures, conduct work simplification and measurement studies, and prepare operations and procedures manuals to assist management in operating more efficiently and effectively. Includes program analysts and management consultants. Excludes "Computer Systems Analysts" (15-1121) and "Operations Research Analysts" (15-2031).
11-9199	Managers, All Other	All managers not listed separately.
11-2021	Marketing Managers	Plan, direct, or coordinate marketing policies and programs, such as determining the demand for products and services offered by a firm and its competitors, and identify potential customers. Develop pricing strategies with the goal of maximizing the firm's profits or share of the market while ensuring the firm's customers are satisfied. Oversee product development or monitor trends that indicate the need for new products and services.
17-3013	Mechanical Drafters	Prepare detailed working diagrams of machinery and mechanical devices, including dimensions, fastening methods, and other engineering information.
17-3027	Mechanical Engineering Technicians	Apply theory and principles of mechanical engineering to modify, develop, test, or calibrate machinery and equipment under direction of engineering staff or physical scientists.
17-2141	Mechanical Engineers	Perform engineering duties in planning and designing tools, engines, machines, and other mechanically functioning equipment. Oversee installation, operation, maintenance, and repair of equipment such as centralized heat, gas, water, and steam systems.
11-9121	Natural Sciences Managers	Plan, direct, or coordinate activities in such fields as life sciences, physical sciences, mathematics, statistics, and research and development in these fields. Excludes "Architecture and Engineering Managers" (11-9041) and "Computer and Information Systems Managers" (11-3021).

29-9011	Occupational Health and Safety Specialists	Review, evaluate, and analyze work environments and design programs and procedures to control, eliminate, and prevent disease or injury caused by chemical, physical, and biological agents or ergonomic factors. May conduct inspections and enforce adherence to laws and regulations governing the health and safety of individuals. May be employed in the public or private sector. Includes environmental protection officers.
47-2073	Operating Engineers and Other Construction Equipment Operators	Operate one or several types of power construction equipment, such as motor graders, bulldozers, scrapers, compressors, pumps, derricks, shovels, tractors, or front-end loaders to excavate, move, and grade earth, erect structures, or pour concrete or other hard surface pavement. May repair and maintain equipment in addition to other duties. Excludes "Crane and Tower Operators" (53-7021) and "Extraction Workers" (47-5000).
53-7064	Packers and Packagers, Hand	Pack or package by hand a wide variety of products and materials.
47-2152	Plumbers, Pipefitters, and Steamfitters	Assemble, install, alter, and repair pipelines or pipe systems that carry water, steam, air, or other liquids or gases. May install heating and cooling equipment and mechanical control systems. Includes sprinklerfitters.
51-8013	Power Plant Operators	Control, operate, or maintain machinery to generate electric power. Includes auxiliary equipment operators. Excludes "Nuclear Power Reactor Operators" (51-8011).
43-5061	Production, Planning, and Expediting Clerks	Coordinate and expedite the flow of work and materials within or between departments of an establishment according to production schedule. Duties include reviewing and distributing production, work, and shipment schedules; conferring with department supervisors to determine progress of work and completion dates; and compiling reports on progress of work, inventory levels, costs, and production problems. Excludes "Weighers, Measurers, Checkers, and Samplers, Recordkeeping" (43-5111).
27-3031	Public Relations Specialists	Engage in promoting or creating an intended public image for individuals, groups, or organizations. May write or select material for release to various communications media.
53-7081	Refuse and Recyclable Material Collectors	Collect and dump refuse or recyclable materials from containers into truck. May drive truck.
47-2181	Roofers	Cover roofs of structures with shingles, slate, asphalt, aluminum, wood, or related materials. May spray roofs, sidings, and walls with material to bind, seal, insulate, or soundproof sections of structures.
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	Sell goods for wholesalers or manufacturers to businesses or groups of individuals. Work requires substantial knowledge of items sold.
41-3031	Securities, Commodities, and Financial Services Sales Agents	Buy and sell securities or commodities in investment and trading firms, or provide financial services to businesses and individuals. May advise customers about stocks, bonds, mutual funds, commodities, and market conditions.
43-5071	Shipping, Receiving, and Traffic Clerks	Verify and maintain records on incoming and outgoing shipments. Prepare items for shipment. Duties include assembling, addressing, stamping, and shipping merchandise or material; receiving, unpacking, verifying and recording incoming merchandise or material; and arranging for the transportation of products. Excludes "Stock Clerks and Order Fillers" (43-5081) and "Weighers, Measurers, Checkers, and Samplers, Recordkeeping" (43-5111).
19-1013	Soil and Plant Scientists	Conduct research in breeding, physiology, production, yield, and management of crops and agricultural plants or trees, shrubs, and nursery stock, their growth in soils, and control of pests; or study the chemical, physical, biological, and mineralogical composition of soils as they relate to plant or crop growth. May classify and map soils and investigate effects of alternative practices on soil and crop productivity.
51-8021	Stationary Engineers and Boiler Operators	Operate or maintain stationary engines, boilers, or other mechanical equipment to provide utilities for buildings or industrial processes. Operate equipment, such as steam engines, generators, motors, turbines, and steam boilers.
47-1011	Supervisors of Construction and Extraction Workers	Directly supervise and coordinate activities of construction or extraction workers.

17-1022	Surveyors	Make exact measurements and determine property boundaries. Provide data relevant to the shape, contour, gravitation, location, elevation, or dimension of land or land features on or near the earth's surface for engineering, mapmaking, mining, land evaluation, construction, and other purposes.
13-1151	Training and Development Specialists	Design and conduct training and development programs to improve individual and organizational performance. May analyze training needs.
53-6099	Transportation Workers	Provide services to ensure the safety and comfort of passengers aboard ships, buses, trains, or within the station or terminal.
11-3071	Transportation, Storage, and Distribution Managers	Plan, direct, or coordinate transportation, storage, or distribution activities in accordance with organizational policies and applicable government laws or regulations. Includes logistics managers.
19-3051	Urban and Regional Planners	Develop comprehensive plans and programs for use of land and physical facilities of jurisdictions, such as towns, cities, counties, and metropolitan areas.
51-4121	Welders, Cutters, Solderers, and Brazers	Use hand-welding, flame-cutting, hand soldering, or brazing equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products.
13-1022	Wholesale and Retail Buyers, Except Farm Products	Buy merchandise or commodities, other than farm products, for resale to consumers at the wholesale or retail level, including both durable and nondurable goods. Analyze past buying trends, sales records, price, and quality of merchandise to determine value and yield. Select, order, and authorize payment for merchandise according to contractual agreements. May conduct meetings with sales personnel and introduce new products. Includes assistant wholesale and retail buyers of nonfarm products.

Clean/Green Committee 2-Year Plan

Workforce Investment Board of Ventura County

Goal: The Clean/Green Committee will strive to develop a pipeline of workers to fill clean/green-related occupations* in Ventura County and will work to bring together partners in business, economic development, education, labor, government, and community-based organizations to address workforce needs in clean/green industries.

**California's current definition of clean/green: recycling/reuse; energy efficiency (product manufacturing and distribution, construction, installation and maintenance, transportation); natural and sustainable product manufacturing; renewable energy; compliance; education and awareness; water conservation*

Action Plan

- 1) Engage a core team of Ventura County employers, agencies, education, labor and other organizations most involved in clean/green workforce development:
 - Recycling/reuse
 - Energy efficiency
 - Natural and sustainable product manufacturing
 - Renewable energy
 - Water conservation
 - California State University, Channel Islands
 - Ventura County Community College District
 - Ventura County Office of Education
 - Adult education
 - Elected officials
 - Others
- 2) Develop ways to identify, engage, and communicate effectively with the core team and other clean/green workforce partners.
- 3) Conduct annual research to evaluate clean/green workforce needs and changes.
- 4) Inventory current training providers in the region.
 - Certification programs
 - Apprenticeships
 - Pre-work experience
 - High school academies
 - Regional Occupational Program
 - Adult school programs
 - Community colleges
 - Universities
- 5) Determine key priorities for clean/green workforce development.
 - Sector workforce readiness
 - Career pathways
 - Sector certifications
 - Stackable credentials
 - Pre-apprenticeship and apprenticeship programs
 - Business participation:
 - Curriculum development
 - Job shadowing
 - Internships
 - On-the-job training
 - Career awareness/outreach
- 6) Identify key gaps between education and clean/green workforce development needs.
- 7) Consider ways to raise employer awareness and participation in green business practices and certifications.
- 8) Develop an action plan to bridge those gaps. Establish a timeline and benchmarks that can monitor the progress of the Clean/Green Committee