



WORKFORCE INVESTMENT BOARD OF VENTURA COUNTY

CLEAN/GREEN COMMITTEE MEETING

Friday, January 16, 2015

8:00 a.m. - 9:30 a.m.

VCCF Nonprofit Center (Community Room)
4001 Mission Oaks Blvd., Camarillo, CA

AGENDA

8:00 a.m.	1.0 Call to Order and Agenda Review	Victor Dollar
8:02 a.m.	2.0 Public Comments <i>Procedure:</i> 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 21, 2014	Victor Dollar
	4.0 Ventura County Regional Strategic Workforce Development Plan	
8:10 a.m.	• Ventura College Water Science Program	Dr. Richard Forde
8:40 a.m.	• Ventura County Green Innovation Hub Evaluation: USC Local Government Challenge	John Brooks
8:45 a.m.	• The Capacity Project: A Public/Private Partnership	Martha Amram Aleks Stankoski
9:05 a.m.	• Career Pathways	Tiffany Morse
9:10 a.m.	• Accelerator Grant and Ventura County STEPS Program	Kay Faulconer Boger
9:20 a.m.	5.0 Committee Member Comments	Committee Members
9:30 a.m.	6.0 Adjournment	Victor Dollar

Next Meeting

March 20, 2015 (8:00 a.m.-9:30 a.m.)

VCCF Nonprofit Center

4001 Mission Oaks Blvd., Camarillo, CA

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WIB Clean/Green Committee Meeting
November 21, 2014

MINUTES

Meeting Attendees

Committee

Kimberly Nilsson (Acting Chair)*
John Brooks
Rebekah Evans
Eric Humel
Teresa Johnson*
Margaret Lau
Valeria Makarova
Tiffany Morse

**WIB Members*

WIB Staff

Patricia Duffy
Cheryl Moore

Guests

Jane Carlson (Thousand Oaks High School)
Loredana Carson (Ventura County Adult Education Consortium)
Rebecca Chandler (Ventura County Office of Education-VCOE)
Michel Etchart (VCOE)
Ralph Fernandez (Ventura College)
Richard Forde (Ventura College)
Alex Garcia (Community Services Department/WIA)
Brad Hudson (Office of Congresswoman Julia Brownley)
Marybeth Jacobsen (Workforce Education Coalition)
Debbie Kehoe (VCOE)
Elizabeth Peterson (Simi Valley High School)
Phillip Jones (Apollo High School)
Robert Rennie (Simi Valley High School)
Bobbi Roderick (Fillmore Unified)
Mary Anne Rooney (VCCA/Alliance for Linked Learning),
Jim Rose (Oxnard Union High School District)
Sulin Rubalcava (VCOE)
David Sorenson (Royal High School)
Carrie Smith (Royal High School)
Wendy Trafton (VCOE)

1.0 Call to Order

Kimberly Nilsson called the meeting to order at 8:08 a.m. No changes were made to the agenda.

2.0 Public Comments

Mary Anne Rooney announced the Alliance for Linked Learning, Business Launch Event of High School Academies, on December 2, 2014, from 8:30 to 10:30 a.m., at Rio Mesa High School.

3.0 Approval of Minutes:

Motion to approve: Teresa Johnson
Second: Rebekah Evans
Abstain: John Brooks
Motion carried

4.0 Ventura County Regional Strategic Workforce Development Plan

- Services Work Group: Teresa Johnson reviewed the employer-driven Work Readiness Hospitality Skills Categories chart, which contained the recommended revisions from Committee members. No further revisions were suggested at this meeting, and the Committee decided to remove "draft" from the document, although it will continue to be a working

document and revised as needed. As with other WIB committee sector skills charts, the hospitality information will be posted on the WIB website for easy access by the public.

- Deputy Sector Navigator (DSN) Update: Margaret Lau reported on the Ventura College Water Science Program field trips, through Dr. Forde's Water Science Program. Seventy-seven students participated in five field trips to learn about the water and waste water industry. In addition, through partnerships with Cal Poly and the California Agriculture Teachers Association (CATA), professional development opportunities for regional high school agriculture faculty are being supported.
- Water/Wastewater Workgroup Report: Patricia Duffy reported on the need to continue the discussion on the critical job needs in the water/wastewater industry and encouraged Committee members to look at the www.Baywork.org website. The Water/Wastewater Workgroup will be reporting at the next Clean/Green Committee meeting.
- Clean/Green Career Pathways Standards: Industry Advisory and Steering Committee Discussion: Cheryl Moore explained how the WIB Clean/Green Committee would provide a neutral platform for facilitating employer feedback to support the two California Career Pathways Trust Grants in Ventura County (*Alliance for Linked Learning* and *VC Innovates*) in developing curriculum aligned with the clean/green industry sector needs.

Committee members and guests broke into three career pathway discussion groups: the Building and Construction Trades Pathway, the Agriculture and Natural Resources Pathway, and the Hospitality, Tourism and Recreation Pathway. Referring to information provided by the *VC Innovates* team, the groups engaged in facilitated discussions and responded to questions on curriculum standards for each of the career pathways. The feedback also will be considered in the development of a career pathways map for the Ventura County region.

5.0 Committee Member Comments

John Brooks announced the 3rd Annual USC Local Government Case Challenge. The USC Price graduate students work in teams to develop an answer to the problem proposed. Mr. Brooks suggested that the Clean/Green Committee submit a proposal to present the students with the challenge of analyzing Ventura County's potential to become a Green/Biotech Innovation Hub. Committee members agreed.












6.0 Adjournment

The Committee meeting was adjourned at 9:40 a.m.













Next Meeting

Friday, January 16, 2015 (8:00 a.m.-9:30 a.m.)
VCCF Nonprofit Center (Community Room)
4001 Mission Oaks Blvd., Camarillo








**Ventura County Occupational Employment Data Growth Projections
CLEAN/GREEN (Infrastructure Subcommittee)**

SOC Code*	U.S. D.O.L. Green Jobs in Demand	Occupations	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 Replacement Openings	VENTURA COUNTY Average Annual Job Openings****	2010 CALIFORNIA Average Annual Employment	2010 VENTURA COUNTY Average Annual Employment
53-7064		Packers and Packagers, Hand	Less Than H.S.	\$19,720	15.7	4,140	14.8	54	82	93,500	1,890
51-9198		Helpers--Production Workers	Less Than H.S.	\$21,855	7.9	970	14.3	12	22	39,400	700
45-2091		Agricultural Equipment Operators	Less Than H.S.	\$22,250	2.1	470	32.1	26	53	14,000	840
45-2000		Agricultural Workers	Less Than H.S.	\$24,000	1.7	9,460	21.5	504	864	297,300	16,740
47-3019		Helpers, Construction Trades, All Other	Less Than H.S.	\$24,130	23.8	110	32.5	10	23	2,100	400
53-7062		Laborers and Freight, Stock, and Material Movers, Hand	Less Than H.S.	\$24,943	19.7	12,030	19.5	108	174	232,700	3,380
37-3011		Landscaping and Groundskeeping Workers	Less Than H.S.	\$25,024	21.6	5,440	15.8	77	146	138,500	4,370
47-3014		Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	Less Than H.S.	\$25,926	23.1	120	N/A	N/A	N/A	2,600	N/A
47-3016		Helpers--Roofers	Less Than H.S.	\$29,219	-7.7	30	N/A	N/A	N/A	1,300	N/A
47-3011		Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	Less Than H.S.	\$30,164	45.7	260	N/A	N/A	N/A	3,500	N/A
47-3012		Helpers--Carpenters	Less Than H.S.	\$30,908	51.6	240	N/A	N/A	N/A	3,100	N/A
53-7051		Industrial Truck and Tractor Operators	Less Than H.S.	\$33,995	15.2	2,570	19.6	40	68	59,100	1,430
47-2061		Construction Laborers	Less Than H.S.	\$38,491	19.5	3,020	24.3	17	69	109,500	2,140
53-7081		Refuse and Recyclable Material Collectors	Less Than H.S.	\$42,486	21.7	780	N/A	N/A	N/A	15,200	N/A
47-2181		Roofers	Less Than H.S.	\$48,253	3.0	400	13.9	7	12	16,800	360
45-4011		Forest and Conservation Workers	H.S. Diploma + OJT	\$21,072	0.0	90	0.0	3	3	3,600	130
49-9098		Helpers--Installation, Maintenance, and Repair Workers	H.S. Diploma + OJT	\$24,772	16.9	820	17.4	10	14	13,000	230
51-2092		Team Assemblers	H.S. Diploma + OJT	\$25,210	8.8	2,180	7.7	41	58	76,400	2,070
51-2099		Assemblers and Fabricators	H.S. Diploma + OJT	\$27,555	11.2	740	12.4	21	33	24,200	1,050
51-2023		Electromechanical Equipment Assemblers	H.S. Diploma + OJT	\$28,493	13.3	170	0.0	2	3	6,000	130
51-9032		Cutting and Slicing Machine Setters, Operators, and Tenders	H.S. Diploma + OJT	\$29,329	-2.0	110	8.3	3	4	5,100	120










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43-5071		Shipping, Receiving, and Traffic Clerks	H.S. Diploma + OJT	\$29,778	5.6	2,790	4.3	53	62	89,900	2,070
51-2022		Electrical and Electronic Equipment Assemblers	H.S. Diploma + OJT	\$29,870	12.2	580	-3.6	20	20	22,200	1,370
47-3015		Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	H.S. Diploma + OJT	\$31,266	36.4	210	N/A	N/A	N/A	3,300	N/A
47-3013		Helpers--Electricians	H.S. Diploma + OJT	\$31,452	21.4	190	27.8	5	10	4,200	180
51-2031		Engine and Other Machine Assemblers	H.S. Diploma + OJT	\$33,638	14.3	50	0.0	1	2	1,400	60
51-9061		Inspectors, Testers, Sorters, Samplers, and Weighers	H.S. Diploma + OJT	\$36,100	13.4	1,690	7.8	33	45	47,900	1,540
43-4051		Customer Service Representatives	H.S. Diploma + OJT	\$36,347	18.6	9,260	22.1	122	217	197,300	4,300
51-4011		Computer-Controlled Machine Tool Operators, Metal and Plastic	H.S. Diploma + OJT	\$36,514	21.1	390	16.7	3	7	9,500	180
51-4121		Welders, Cutters, Solderers, and Brazers	H.S. Diploma + OJT	\$37,621	11.1	820	20.4	13	23	21,700	490
49-9071		Maintenance and Repair Workers, General	H.S. Diploma + OJT	\$38,449	12.7	3,510	11.2	36	58	113,000	1,960
53-6099		Transportation Workers, All Other	H.S. Diploma + OJT	\$40,194	16.0	230	18.2	7	11	5,000	220
51-4041		Machinists	H.S. Diploma + OJT	\$40,242	13.1	950	10.0	15	23	30,500	800
47-4041		Hazardous Materials Removal Workers	H.S. Diploma + OJT	\$40,284	18.6	190	0.0	2	3	4,300	60
49-9043		Maintenance Workers, Machinery	H.S. Diploma + OJT	\$40,578	4.9	140	12.5	3	5	6,100	160
53-3021		Bus Drivers, Transit and Intercity	H.S. Diploma + OJT	\$41,747	14.3	890	6.3	9	11	26,600	480
51-9011		Chemical Equipment Operators and Tenders	H.S. Diploma + OJT	\$44,949	8.0	60	N/A	N/A	N/A	2,500	N/A
43-5061		Production, Planning, and Expediting Clerks	H.S. Diploma + OJT	\$48,503	9.6	1,390	4.5	17	21	38,600	660
13-1022		Wholesale and Retail Buyers, Farm Products	H.S. Diploma + OJT	\$51,604	17.0	680	18.5	7	13	15,900	270
47-2152		Plumbers, Pipefitters, and Steamfitters	H.S. Diploma + OJT	\$53,543	17.2	1,670	26.7	17	33	36,100	600
47-2111		Electricians	H.S. Diploma + OJT	\$60,216	15.7	2,010	22.1	18	33	47,200	680
51-8021		Stationary Engineers and Boiler Operators	H.S. Diploma + OJT	\$64,384	5.9	100	0.0	1	1	3,400	60






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47-2073		Operating Engineers and Other Construction Equipment Operators	H.S. Diploma + OJT	\$65,711	23.1	1,020	28.1	13	29	22,100	570
13-1199		Business Operations Specialists, All Other	H.S. Diploma + OJT	\$67,213	13.6	4,560	14.6	60	106	139,100	3,150
47-4011		Construction and Building Inspectors	H.S. Diploma + OJT	\$72,234	18.6	470	13.6	6	9	9,700	220
47-1011		First-Line Supervisors of Construction Trades and Extraction Workers	H.S. Diploma + OJT	\$73,957	21.7	2,060	26.4	1	43	46,000	870
11-3071		Transportation, Storage, and Distribution Managers	H.S. Diploma + OJT	\$84,677	14.0	460	14.3	5	9	12,100	210
51-8013		Power Plant Operators	H.S. Diploma + OJT	\$84,797	12.1	160	0.0	2	2	3,300	50
11-9199		Managers, All Other	H.S. Diploma + OJT	\$119,786	11.7	2,980	14.0	52	84	87,900	2,360
49-2092		Electric Motor, Power Tool, and Related Repairers	Vocational / OJT	\$41,903	7.7	20	N/A	N/A	N/A	1,300	N/A
49-9021		Heating, Air Conditioning, and Refrigeration Mechanics and Installers	Vocational / OJT	\$51,356	27.1	920	27.5	9	23	20,700	510
49-2094		Electrical and Electronics Repairers, Commercial and Industrial Equipment	Vocational / OJT	\$59,680	10.6	230	0.0	3	3	6,600	140
49-2095		Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	Vocational / OJT	\$83,825	25.0	60	N/A	N/A	N/A	1,200	N/A
19-4011		Agricultural and Food Science Technicians	Associate's Degree	\$31,656	6.7	130	12.5	3	4	3,000	80
19-4093		Forest and Conservation Technicians	Associate's Degree	\$36,126	-2.7	310	-7.1	6	6	7,400	140
19-4031		Chemical Technicians	Associate's Degree	\$44,018	14.5	180	N/A	N/A	N/A	6,200	N/A
19-4091		Environmental Science and Protection Technicians, Including Health	Associate's Degree	\$50,108	26.5	230	37.5	3	6	3,400	80
17-3026		Industrial Engineering Technicians	Associate's Degree	\$51,790	15.6	160	N/A	N/A	N/A	4,500	
17-3024		Electro-Mechanical Technicians	Associate's Degree	\$52,618	13.9	120	N/A	N/A	N/A	3,600	
17-3011		Architectural and Civil Drafters	Associate's Degree	\$54,227	-0.8	250	0.0	3	3	12,700	170
17-3013		Mechanical Drafters	Associate's Degree	\$54,580	10.4	140	13.3	3	5	4,800	150
17-3012		Electrical and Electronics Drafters	Associate's Degree	\$55,771	10.0	120	0.0	2	3	4,000	120
17-3027		Mechanical Engineering Technicians	Associate's Degree	\$56,163	10.0	110	6.7	3	4	4,000	150

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17-3023		Electrical and Electronics Engineering Technicians	Associate's Degree	\$61,504	8.3	570	-1.2	16	16	20,400	810
17-3025		Environmental Engineering Technicians	Associate's Degree	\$61,522	18.5	100	30.8	2	6	2,700	130
17-3022		Civil Engineering Technicians	Associate's Degree	\$61,693	8.5	200	7.1	3	5	7,100	140
17-3029		Engineering Technicians, Except Drafters, All Other	Associate's Degree	\$64,283	9.7	270	0.0	7	7	9,300	350
11-9021		Construction Managers	Associate's Degree	\$102,300	14.1	1,220	15.0	6	22	59,600	1,000
45-2011		Agricultural Inspectors	Bachelor's Degree	\$45,509	4.3	80	N/A	N/A	N/A	2,300	N/A
27-1021		Commercial and Industrial Designers	Bachelor's Degree	\$63,105	22.5	210	26.7	5	9	4,000	150
13-2099		Financial Specialists, All Other	Bachelor's Degree	\$63,406	13.2	810	30.1	22	54	23,500	1,030
27-3031		Public Relations Specialists	Bachelor's Degree	\$63,441	21.1	1,130	14.7	9	14	23,700	340
13-1151		Training and Development Specialists	Bachelor's Degree	\$64,471	31.9	910	32.5	7	20	18,800	400
19-1013		Soil and Plant Scientists	Bachelor's Degree	\$69,582	26.3	120	N/A	N/A	N/A	1,900	N/A
41-3031		Securities, Commodities, and Financial Services Sales Agents	Bachelor's Degree	\$71,314	17.4	1,710	38.0	20	46	38,000	710
19-2041		Environmental Scientists and Specialists, Including Health	Bachelor's Degree	\$74,978	23.1	680	22.5	12	21	13,000	400
17-1012		Landscape Architects	Bachelor's Degree	\$76,000	12.5	110	N/A	N/A	N/A	3,200	N/A
19-2031		Chemists	Bachelor's Degree	\$76,659	11.0	480	0.0	8	8	10,900	250
13-1081		Logisticians	Bachelor's Degree	\$78,861	33.8	720	11.5	12	19	13,600	610
29-9011		Occupational Health and Safety Specialists	Bachelor's Degree	\$80,890	14.3	310	7.7	5	6	6,300	130
13-1111		Management Analysts	Bachelor's Degree	\$84,448	22.5	3,220	16.0	28	55	82,800	1,690
17-1022		Surveyors	Bachelor's Degree	\$85,245	15.7	190	20.0	2	4	5,100	100
17-2081		Environmental Engineers	Bachelor's Degree	\$86,165	25.0	280	20.0	4	8	6,000	200
19-2042		Geoscientists, Except Hydrologists and Geographers	Bachelor's Degree	\$87,326	25.5	260	25.0	4	8	4,700	120
13-2051		Financial Analysts	Bachelor's Degree	\$88,146	24.3	1,370	28.3	10	22	30,000	460
17-2141		Mechanical Engineers	Bachelor's Degree	\$90,973	9.8	940	6.4	25	30	22,500	780
17-2112		Industrial Engineers	Bachelor's Degree	\$92,771	11.1	630	3.1	7	8	19,000	320

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19-2032		Materials Scientists	Bachelor's Degree	\$92,999	15.4	60	N/A	N/A	N/A	1,300	N/A
17-2051		Civil Engineers	Bachelor's Degree	\$93,988	12.6	1,230	20.4	11	22	37,200	540
11-3051		Industrial Production Managers	Bachelor's Degree	\$94,671	10.1	590	11.8	16	23	17,800	680
17-2131		Materials Engineers	Bachelor's Degree	\$98,576	17.2	140	N/A	N/A	N/A	2,900	N/A
17-2071		Electrical Engineers	Bachelor's Degree	\$102,201	10.5	740	1.9	13	15	21,000	530
17-2072		Electronics Engineers, Except Computer	Bachelor's Degree	\$106,211	12.9	1,170	-7.8	37	37	31,800	1,530
11-3131		Training and Development Managers	Bachelor's Degree	\$107,568	18.5	110	16.7	1	2	2,700	60
17-2011		Aerospace Engineers	Bachelor's Degree	\$112,911	13.3	720	0.0	2	2	20,300	100
11-3031		Financial Managers	Bachelor's Degree	\$121,491	13.5	2,210	18.7	25	51	69,600	1,390
11-2021		Marketing Managers	Bachelor's Degree	\$135,742	18.6	1,540	16.2	11	17	32,200	370
11-9121		Natural Sciences Managers	Bachelor's Degree	\$143,098	17.0	680	7.0	26	29	8,800	430
11-9041		Architectural and Engineering Managers	Bachelor's Degree	\$144,681	13.9	1,010	9.6	10	15	30,200	520
19-3051		Urban and Regional Planners	Master's Degree	\$78,710	23.6	450	13.3	16	6	8,900	150
25-1032		Engineering Teachers, Postsecondary	Doctoral Degree	\$109,773	12.9	90	N/A	N/A	N/A	3,100	N/A

*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

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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
2020 Growth Projection Data
Priority Occupations Identified by Living Wages & Employment Growth
Infrastructure Jobs



CLEAN/GREEN WORK READINESS: INFRASTRUCTURE SKILLS CATEGORIES
Workforce Investment Board of Ventura County

SAFETY	MATH CONCEPTS	MEASUREMENTS	HAND AND POWER TOOLS
<ul style="list-style-type: none"> • General workplace safety • Electrical safety including Lock-out/Tag-out procedures • Worker safety • Equipment safety • Climbing/ladder safety • Power tool safety • Safety data sheets • OSHA10 • First aid/CPR/AED 	<ul style="list-style-type: none"> • Multiplication, division, addition and subtraction of fractions • Combined operations of fractions and mixed numbers • Algebraic operations of addition, subtraction and multiplication • Ratios and proportions • Table of decimal equivalents and combined operations of decimals • Degree of precision, tolerance and clearances 	<ul style="list-style-type: none"> • Standards • Units of measurement • Tape measure use • Measuring for cutting materials • Basic layout (surveying) • Mass and weight measurement • Measuring fluids • Measuring solid materials (sand, cement, etc.) 	<ul style="list-style-type: none"> • Tape measures, squares and levels • Basic hand tools – saws, hammers, screw drivers, wrenches • Power tools – saws, drills, screwdrivers • Pneumatic drills and nail guns • Powder actuated tools • Laser equipment
SUSTAINABILITY AND QUALITY	BLUEPRINT CONCEPTS	EMPLOYABILITY SKILLS	COMPUTER SKILLS
<ul style="list-style-type: none"> • Sustainable work processes: <ul style="list-style-type: none"> ○ Conservation ○ Reuse ○ Recycle ○ Repurpose ○ Reduce ○ Economy of use/right-sizing • Importance of individual – do it right the first time • Continuous process improvement for green purposes 	<ul style="list-style-type: none"> • Introduction basic construction drawings • Basic blueprint reading • Understanding different drawing types: <ul style="list-style-type: none"> ○ Civil ○ Electrical ○ Mechanical ○ Repair/renovation ○ New construction 	<ul style="list-style-type: none"> • Basics of interviewing • Work ethic • Oral communication • Written communication • Time management • Task prioritization • Worker, supervisor, manager etiquette and protocol basics • Basic company policy understanding 	<ul style="list-style-type: none"> • Excel • Word • OS basics • Computer navigation • Computer security • Computer etiquette • Viewer basics, PDF, CAD, jpg, png, bmp, TIFF, Solid Works, etc. • File extension basics



CLEAN/GREEN WORK READINESS: HOSPITALITY SKILLS CATEGORIES
Workforce Investment Board of Ventura County

BASICS OF QUALITY CONTROL	COMPUTER SKILLS	EMPLOYABILITY SKILLS
<ul style="list-style-type: none"> • Knowledge of standards and processes, as applicable per job function • Basic quality control methodology of each job function • Importance of personal responsibility (do it right the first time or ask for clarification first) • Specific hotel and hospitality culture and quality control measures • Knowledge of system processes • Knowledge of “clean-green” (energy, efficiency, sustainability) processes • Cost control and purchasing procedures 	<ul style="list-style-type: none"> • Microsoft Word • Microsoft Excel • Operating system basics • Computer navigation • Computer etiquette • Computer security 	<ul style="list-style-type: none"> • Initiative • Work ethic • Basics of interviewing • Job search skills • Communication skills • Continuous improvement skills (ability to use constructive criticism) • Basic company policy understanding • Time management • Task prioritization • Worker, supervisor, and manager etiquette and protocol basics • General reading skills • Critical thinking skills • General math skills

LODGING SKILLS	SALES AND MARKETING	FOOD AND BEVERAGE SERVICE
<ul style="list-style-type: none"> • Safety and security practices and procedures • Hotel management skills • Facilities and grounds management • Human resources and employment law • Food management and catering • Accounting • Guest service and guest relationships • Front desk operations-reservations, registration, check-out and settlement • Housekeeping management 	<ul style="list-style-type: none"> • Hospitality advertising and marketing via social media, telephone, brochures, local media • Catering and meeting room promotions • Public relations • Hospitality and lodging development and strategic planning 	<ul style="list-style-type: none"> • Hotel food and beverage service • Menus, dining, and beverage service • Event planning (bridal, meetings, etc.) • Sanitation, health, and safety

HOSPITALITY Accommodations: hotels, motels, resorts, hostels, vacation rentals, vacation ownership, bed and breakfast properties, recreational vehicles, camping
Food and Beverage: restaurants, full-service, fine dining, quick service, banquet facilities, lounges
Transportation: airlines, cruise lines, rail, car rentals, tour/coach operators, bus lines, taxis
Attractions: theme parks, zoos, national/state/local parks, natural wonders, heritage sites
Tourism /Destination: convention and visitors bureaus, state travel groups, Chambers of Commerce

PROTECTING PUBLIC HEALTH

The Water Science program provides students with the technical training they need to pursue a career in the municipal potable water and wastewater industries.

Waterworks operators protect public health by ensuring that plant operations comply with state and federally mandated drinking water and wastewater disposal standards.

Students seeking an Associate's Degree in Water Science may choose the WATER option to prepare them for a career in potable water treatment or the WASTEWATER option to prepare them for a career in wastewater sanitation. Regardless of the option chosen, both paths lead to rewarding careers protecting the health of both the community and the environment at local, state, and federal levels.



CONTACT:
Career and Technical Education
Division Office
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VENTURA COLLEGE

WATER SCIENCE PROGRAM



SET YOUR COURSE



WHAT IS WATER SCIENCE?

The Water Science program at Ventura College teaches students about the technical concepts underlying the water industry. Students learn to analyze water chemistry, evaluate sources of contamination, design water delivery and treatment systems, and examine environmental issues related to domestic water use. Courses in the Water Science program are applicable towards licensure, continuing education credits, and may be used by students seeking quality employment opportunities.

The DAVINCI Code:

*Water is the driving
force of all nature.*

~ Leonardo da Vinci, 1485

WHY THIS PROGRAM?

Water Science is a true profession in the public health sector. Just like Doctors and Nurses, you attend college, obtain your degree, take your state exams, obtain your license and begin practice. The Ventura College Water Science program is the largest in the state:

- 12 separate courses
- 2 Certificates of Achievement
- 2 Associate of Science Degrees
- Preparation for 5 different licenses.



ASSOCIATE IN SCIENCE DEGREE CERTIFICATE OF ACHIEVEMENT

WATER SCIENCE

REQUIRED COURSES		UNITS
WSV15	Water Systems Instrumentation and Controls	3
WSV16	Water Quality Protection and Cross-Connection Control	3
WSV17	Water and Wastewater Hydraulics	3
WSV18	Motors and Pumps Maintenance and Operation	3
WSV21	Water Chemistry and Bacteriology	4
WSV25	Water and Wastewater Management	3

REQUIRED ADDITIONAL COURSES FOR OPTION:

Students will select one (1) of the following options and complete all courses listed:

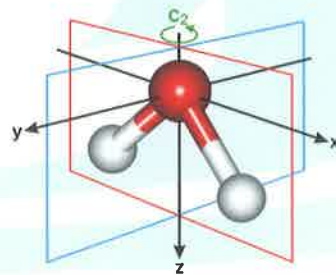
WASTEWATER OPTION:

WSV10	Basic Water and Wastewater Systems	3
WSV12	Wastewater Treatment	3
WSV13	Wastewater Collection	3

WATER OPTION:

WSV11	Water Treatment	3
WSV14	Water Distribution	3
WSV19	Advanced Water Treatment	3

TOTAL **28**



RECOMMENDED COURSES

In addition to the required courses listed here, it is recommended that students who seek to obtain additional insight into this field of study consider taking one or more of the following courses in:

- **Blueprint Reading: Architectural/Construction**
- **Blueprint Reading: Manufacturing**
- **Elementary Chemistry**
- **English Composition**
- **Intermediate Algebra**
- **General Physics I**

7,500 TO 10,000 JOBS IN CALIFORNIA!

Water is the very essence of life itself.

The Mars Rover is at this very minute searching the surface of Mars for traces of water. Where there is water, there is the possibility of life. They NEVER close down water plants. There are no layoffs because of slow business. Water and wastewater operations are 24/7. In America, the current workforce is rapidly approaching retirement age. The job opportunities are huge all over the United States and especially here in California. This is the perfect time to begin your career in the water industry. Starting salaries are anywhere from \$45,000 to \$75,000, dependent upon your location within California.



Ventura County Green Innovation Hub Evaluation USC Local Government Challenge

USC students will analyze Ventura County's potential to become an internationally recognized Green Innovation Hub.

Sponsor: Workforce Investment Board (WIB) of Ventura County (Clean/Green Committee).

Summary: The County already has a strong manufacturing base, a flourishing biotechnology sector, an emerging sustainable manufacturing sector, and a strong university presence. The region would like to capitalize on these advantages and position itself as a Green Innovation Hub, developing solutions to help the world's transition to a low-carbon future.

This project is envisioned as an analysis identifying gaps and strengths and providing suggestions on how the region can become an internationally recognized Green Innovation Hub and how it can develop this sector as a key driver of the local economy.

Background: California and Ventura County are well-positioned to be leaders in the development and deployment of greenhouse gas (GHG) reduction solutions that will assist in the transition to a low-carbon economy. Because of California's size and early adoption of significant environmental controls, Cap & Trade, AB 32, and mandatory organics recycling, the state is already a key player in finding sustainable solutions that include cleaner emission vehicles, energy efficient appliances, and green chemistry requirements. These are also the types of jobs and opportunities we need to develop locally to provide opportunities for our youth and to sustain our region.

The aerospace sector was a huge boost to the Southern California region in the 70s. The Bay area has developed the Silicon Valley, and North Carolina has the Research Triangle. What were the key components that enabled these areas to develop into such well-known powerhouses? How can this experience be used to guide the development of a regional Green Innovation Hub in Ventura County?

USC Student Benefits: This would be an ideal project for USC students since it will involve students in a number of sectors: economic development, start-ups, manufacturing, biotech, and agriculture as well as government. Secondly, this project is related to one of the most critical issues that government agencies and many NGOs will face in the decades to come.

Contacts: Cheryl Moore, Executive Director WIB
John Brooks, Sr. Environmental Analyst, City of Thousand Oaks,

Additional supplementary information and contacts in key sectors are readily available if needed.

Ventura County Green Innovation Hub Evaluation

USC Local Government Challenge – Supplemental Details

Project Specifics:

Given the limited time and scope of the project, it is envisioned as an initial look at one or more of the questions and issues identified below. Secondly, it will serve as a catalyst to bring together key regional players and showcase how various initiatives that are underway locally would support or benefit from the development of a Green Hub.

1. Development of an initial SWOT analysis.
2. Identify gaps and areas where further research is needed in the development of a Hub.
3. Would adding biotech to the hub be beneficial?
4. What were the key components that enabled these areas to develop into such well-known powerhouses?
5. Are there policies impeding the development of a Ventura County hub, or that are needed to support the development of a hub?
6. Do we have the right types and mixes of real estate development and zoning to support the hub?
7. What core areas should the Ventura County Hub concentrate on developing?

Related Research

Next 10 in November 2014, published the *Regional Clean Economy Series* of five reports highlighting five sectors of the state that are forming and nurturing regional clean economy sectors focused on the “core clean economy.” Next 10 is an independent, nonpartisan organization that focuses on the environment, the economy, and the quality of life for all Californians.

They define the core clean economy as, “*businesses that provide the cutting-edge products and services that allow the entire economy to transition away from fossil fuels and use natural resources more efficiently.*”

The regions and core clean economy focus for their reports include:

1. Los Angeles and Orange – advanced transportation
2. Sacramento – electric vehicles, building energy efficiency and solar, waste-to-energy
3. San Diego and Imperial – smart grid and biorenewables
4. San Francisco Bay Area – advanced transportation, energy storage, building energy efficiency
5. San Joaquin Valley – water-agriculture, renewable energy

Ventura County Emerging Clean Tech Sector

The Clean Technology Council –hosts monthly meetings in Thousand Oaks to showcase local cleantech inventors/entrepreneurs.

Examples of local core greentech businesses:

Clean Diesel Technologies Inc, Agromin, SolarWorld, GreenTech Motors & Shape Change Technologies, adg Eco Lighting Products (Agoura Hills), Titan LED inc., (Simi Valley), GoGreen Mobile Camarillo, Digital Energy, Westlake Village

Related Projects & Research:

- Ventura County Regional Strategic Workforce Development Plan 2013-2017
- Comprehensive Economic Development Strategy for Ventura County 2014
- Ventura County State of the Region Report 2015
- California Career Pathways Trust Grants: *Alliance for Linked Learning* and *VC Innovates*
- Amgen Foundation Grant: *Ventura County Regional STEM Network*
- Advanced Manufacturing Partnership of Southern California (U.S. Department of Commerce Manufacturing Communities Partnership Designation)
- Innovation HUB Designation
- Projects of the Workforce Investment Board of Ventura County sector committees (Clean/Green Committee, Manufacturing Committee, Healthcare Committee): business-developed skills lists for entry-level jobs in manufacturing, healthcare, clean/green infrastructure; new Biomedical Device Manufacturing Certificate; new Clinical Laboratory Scientist Field Experience Program

STEPS Key Partners

- Citizens
- Community Support Services
- Correctional Agencies
- Educational Institutions
- Employers
- Employment Services
- Faith-based Organizations
- Judicial Systems
- Social Services
- Supervision Agencies

Ventura County *Probation Agency*



To promote dynamic leadership in community corrections as we design and implement innovative, efficient, and fiscally sound programs that are models of success in the criminal justice system.

Human Services *Agency*



We strengthen families, support self sufficiency and promote safety, health and well being.

All Human Services Agency program services operate and perform at the highest level to meet individual, family, and community needs by providing assistance, aid, protection, and help.

BELIEVE IN
Second Chances!



Ventura County **Probation Agency**

800 S. Victoria Avenue
Ventura, CA 93009

www.venturaprobation.org

Human Services Agency

855 Partridge Drive
Ventura, CA 93003
www.vchsa.org

1-(800) 500-7705



STEPS
Specialized Training &
Employment Project
for Success

*Re-Entry Employment Services
for Prepared Job Seekers*

*A Community Service from
County of Ventura
Human Services Agency &
Ventura County Probation Agency*

STEPS Profile

The County of Ventura Human Services Agency and the Probation Agency have partnered to provide a business services model to connect reentry workers with employers.

STEPS uses an employment services method to develop a pool of job seeker candidates prepared for employment with employers throughout Ventura County.

STEPS Goals

- Prepare job seekers for employer workforce recruitment opportunities
- Match qualified job seekers with employers that hire general services, production, retail, food service, and other entry level to skilled level workers
- Make STEPS staff contact easy through e-mail, online, telephone, and in-person

STEPS Specialized Services

- STEPS job seekers receive personalized services in professional development
- STEPS employers are recognized as innovators and community workforce leaders
- STEPS staff can tailor an employee hiring plan that could include Employer On-the-Job Training services. STEPS employer can access information and services about training funding to assist with training costs.

EMPLOYER Benefits

- The STEPS Project provides reentry job seekers with ongoing education, training and employment guidance.
- STEPS staff provide support to employers who may be hesitant to consider qualified reentry workers.
- STEPS staff are able to coordinate employee Fidelity Bonding that can financially protect employers.
- STEPS staff are able to coordinate (when available), employer tax incentives commonly known as WOTC/Work Opportunity Tax Credit

EMPLOYER Incentives

- No-cost business workforce consulting
- STEPS staff can meet you at your business location
- No-fee job opening sourcing with the STEPS candidates
- No-fee referral to other online job posting services
- No-fee job postings on the County of Ventura labor exchange website:
venturacountyjcc.org/employerservices
- No-fee business referrals to other community business services
- Staff assisted recruitment services

Learn More

Human Services Agency/Job & Career Centers
www.venturacountyjcc.org/employerservices/accountexecutives

Ventura County Human Services Agency
www.vchsa.org

E-mail: HSA-Employer-Services@ventura.org

GETTING Started

STEPS can help you fill that job opening or refer you to the Job & Career Centers for additional employer services.

- Call 1-800-500-7705
- Click www.venturacountyjcc.org or www.vchsa.org
- E-mail HSA-Employer-Services@ventura.org
- Meet with the STEPS Account Executive at your place of business



“We are looking for employers willing to give our clients a second chance for a brighter future. Our clients need the opportunity to work and provide for their families.”

Employer Survey Questions

I. Demography *(please check all that apply):*

- Male
- Female
- Chief Executive Officer/President
- Chief Operating Officer
- VP of Human Resources / Director of Human Resources
- Director of Production
- Supervisor
- Governmental agency
- Other/ none of the above

II. Describe your organization *(please select the item that best describes your firm/agency):*

- Small business (*under 50 employees*)
- Nonprofit
- Large corporation, part of a chain
- Government
- Local corporation

III. Describe your product or service:

- Technical/Software products/systems
- Manufacturing/production
- Green Industries
- Health Care
- Hospitality
- Janitorial/Building Maintenance
- Services (i.e., plumbing, HVAC)
- Other

IV. Questions *(please answer all questions):*

1. What criteria would you use in considering a job candidate who was an ex-offender? Choose one or all of the items below:

- Has the specific skills and competencies we needed
- Has a specific Certification (e.g. Welding, Plumbing, Painting, Computer Repair, etc.)
- Has character references
- Has Drivers License
- Is eager to learn and perform; e.g., "had a positive attitude."
- Has his/her GED
- Has ability to use a computer to enter data or use the internet/Web



Employer Survey Questions

2. How important are the incentives below? Choose one or all of the items below:

- Fidelity Bonding Job training funding
 Tax Credits Staff support for the hire

3. Would you apply the same set of personnel recruitment, screening, and hiring business rules that your company uses for its general workforce planning and development purposes?

- Yes No

4. Would the HR director/staff be involved in the employee's success and retention at the company?

- Very involved Somewhat involved Not very involved

5. Who would be most involved at your firm/agency/institution in ensuring that the employee was successful at learning their job, demonstrating a positive workplace ethos, and remaining employed?

- Supervisor HR Director/staff
 Peers Person provided OJT

6. If you have already hired an Ex-Offender, please describe your experience in general regarding the ex-offender. In general, how did it work out? Select one choice:

- It was a positive experience It was not a positive experience Mixed experience

Contact Information:

Your Name:

Company Name:

Phone:

Email:

