

Strong Workforce Program Regional Plan Update



Winter 2019

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SDICCCA Region

San Diego and Imperial Counties span the southern border of California. With more than 3.5 million people, our diverse population includes people from all walks of life. Urban and rural communities offer a wide range of occupations and opportunities. San Diego County includes a few of the wealthiest neighborhoods in the country and both counties have neighborhoods with high rates of poverty and unemployment. The median family income in San Diego is \$63,800 a year with 12% of the population living in poverty. In Imperial, the median family income is \$39,500 a year and more than 19% of the population lives in poverty.

The 10 community colleges in San Diego and Imperial offer a unique opportunity for people to access social mobility. More than 200,000 residents attend community college in the region and our students are much more diverse than the general community. While around 70% of the population in the region is white, more than 65% of our student population are students of college. More than 50% of our student population are low income. As a result, with the support of the Strong Workforce program, San Diego and Imperial Community Colleges are collaborating to lock in opportunity for more of our promising students to transform their lives through education.

COMMUNITY COLLEGES IN SAN DIEGO & IMPERIAL COUNTIES



Our 10 Community Colleges & Continuing Education Institutions

- | | |
|-------------------------|--------------------------------|
| Cuyamaca College | San Diego City College |
| Grossmont College | San Diego Continuing Education |
| Imperial Valley College | San Diego Mesa College |
| MiraCosta College | San Diego Miramar College |
| Palomar College | Southwestern College |

Regional Strong Workforce Participation and Governance

The Regional Consortium for Workforce Development for San Diego-Imperial Counties Community Colleges is the regional entity working with the 10 community colleges to implement the Strong Workforce Program (SWP). The San Diego and Imperial Counties Community College District Association (SDICCCA) represented by the region's CEOs sets the policy for Strong Workforce. The Regional Oversight Committee (ROC) represented by a wide range of constituencies on the campuses sets the vision and strategic priorities for Strong Workforce. The Workforce Development Council (WDC) is the operational arm of Strong Workforce. More than 10 work-groups implement the day-to-day operations of Strong Workforce. WDC and the work-groups have representation from all colleges, K-12, Adult Education and the workforce systems.

The fiscal agent for the San Diego Imperial Counties Regional Consortium is the Grossmont-Cuyamaca Community College District. The Regional Consortium's governance structure is shown below.

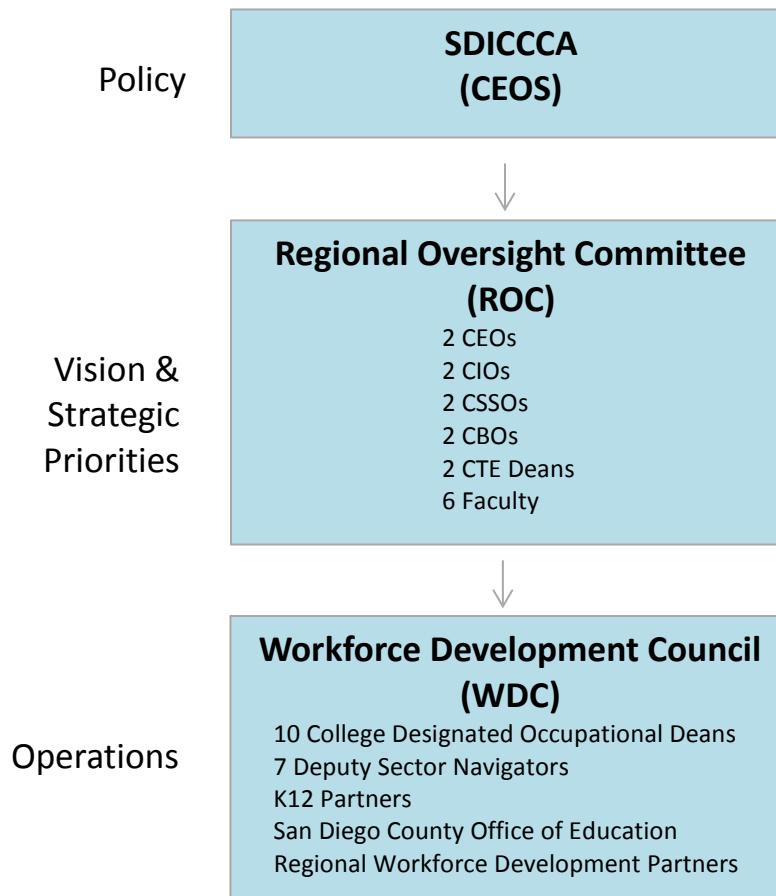
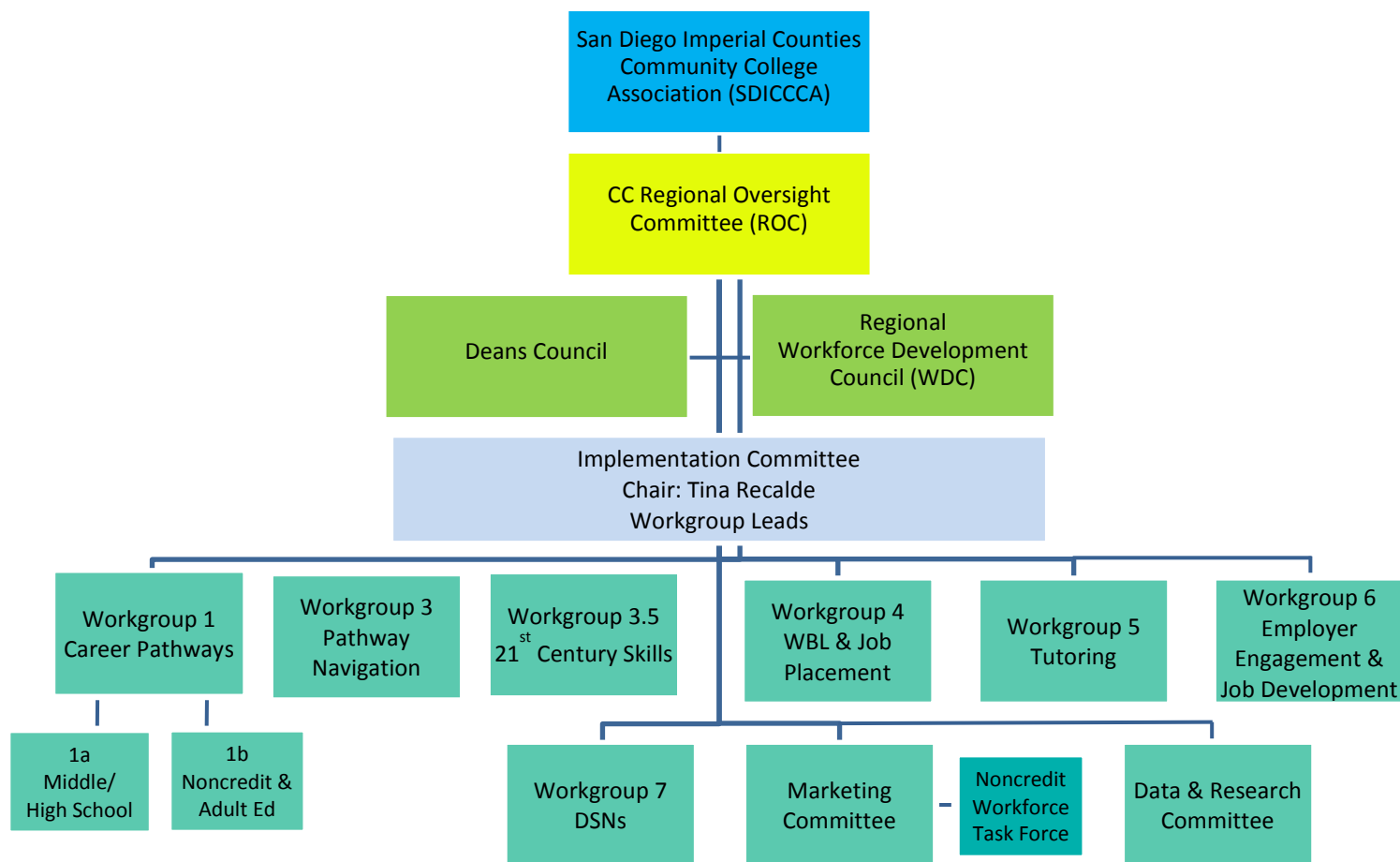


Diagram of SDIC Strong Workforce Workgroups



Work Group Chairs

*1: Jennifer Patel, Region & Kathleen Porter, Poway USD

*2: Leslie Wisdom, Region, Jennifer Lewis, Southwestern, Jesse Lopez, Miramar

3: Claudia Estrada, Mesa & Javier Ayala, Grossmont

4: B. Gamboa, Miramar & . McLemore, Cuyamaca

5: Marie Romero, Mesa & Danene Brown, Mesa

6: Margie Fritch, Palomar & Cassandra Storey, SD Continuing Ed

7: Mollie Smith, Region & Marketing: Danene Brown, Mesa

Data/Research: Zhenya Lindstrom, MiraCosta & Tina Ngo-Bartel, Region

**K12 Participation*

SDIC Strong Workforce Workgroup Participation

Workgroup 1: Career Pathways

Region: Jen Patel, DSN, Chair

Poway USD: Kathleen Porter, Co-Chair

Grossmont: Erica Olmos, CTE Program Specialist

Grossmont: Sosha Thomas, Faculty CSIS/BOT

IVC: Betsy Lane, Associate Dean

Palomar: Glyn Bongolan, General/STEM Counselor

SD City: Jeanie Tyler, Associate Dean Strong Workforce

SDCE: Kelly Henwood, Special Projects Manager

SD Mesa: Danene Brown, CE Dean SD Miramar

Southwestern: Marie Vicario, CE Faculty

San Diego County OE: Margie de Ruyter, Career

Pathway/District and School Improvement

Imperial County OE: Denise Cabanilla, Director, Higher

Education & Adult Learning

Region: Mollie Smith, RC Chair

Region: Leslie Wisdom, Program Coordinator

K12 Representation:

Central UHSD: Renato Mantano, Superintendent

Brawley UHSD: Simon Canalez, Superintendent

Learning Choice Academy: Jeff Fechner, Dean of Students

Carlsbad USD: Megan Arias, Director of Secondary

Education

San Dieguito UHSD: Manuel Zapata, Director of

Accountability and Special Programs

Alpine USD: Richard Newman, Superintendent

Cajon Valley SD: Ed Hidalgo, Chief Innovation and

Engagement Officer

Grossmont Union HSD: Teri Sprecco, Director, College and

Career Readiness

San Diego Unified SD: Al Love, CTE Director

San Diego Unified SD: Lori Holland, Science Teacher

Workgroup 3 Pathway Navigation

SD Mesa: Claudia Estrada, Transfer/Career Supervisor, Chair

Grossmont: Javier Ayala, CE Dean, Co-Chair

Cuyamaca: George Dowden, CE Coordinator

Cuyamaca: Nicole Jones, M.S. Dean, Counseling Services

Grossmont: Renee Nasori, Career Services

MiraCosta: Zhenya Lindstrom

Palomar: Rosie Antonecchia, General Counselor

SDCE: Edith Quintero, Counselor

SD Mesa: Ailene Crakes, Dean, Student Development

SD Mesa: Olivia Picolla

SD Mesa: Leroy Johnson

SD Miramar: Karl Cameron, Adjunct Counselor

Southwestern: Scott Finn, Career Counselor

Region: Region: Mollie Smith, RC Chair

Region: Leslie Wisdom, Program Coordinator

Workgroup 2: Middle School/High School Engagement

Region: Leslie Wisdom, Program Coordinator

SD Miramar: Jesse Lopez, CE Dean, Co-Chair

Southwestern: Jennifer Lewis, CE Dean, Co-Chair

Cuyamaca: Kate Miller, CTE Support Specialist

Grossmont: Angela Tilley, CTE Program Assistant

Grossmont: Erika Arangure, CTE Program Coordinator

IVC: Roxanne Nunez, CE Counselor

MiraCosta: Amy Pimentel, Career Education Pathways

Coordinator

Palomar: Glyn Bongolan, General/STEM Counselor

SDCE: Lorie Howell, Dean GED/HS Diploma/Basic Skills

Region: Heather Cavazos, Industry Connection

Region: Monica Rosas, Industry Connection

Region: Mollie Smith, RC Chair

Region: Leslie Wisdom, Program Coordinator

Region: Jen Patel, DSN

K12 Representation:

Poway USD: Lynn McConnville, Assistant Principal

Carlsbad USD: Megan Arias, Director of Secondary Education

Cajon Valley SD: Ed Hidalgo, Chief Innovation and Engagement

Officer

Grossmont Union HSD: Teri Sprecco, Director, College and

Career Readiness

San Diego Unified SD: Lori Holland, Science Teacher

Workgroup 4 Work-Based Learning & Job Placement

SD Miramar: Ben Gamboa, Associate Dean Strong Workforce, Chair

Cuyamaca: Larry McLemore, CE Dean, Co-Chair

Grossmont: Paolo Espaldon, Americas Promise Coordinator

IVC: Marisela Moreno, Student Success Specialist

MiraCosta: Donna Davis, Faculty

Palomar: Nicole Roe, Associate Dean

Palomar: Jason Jarviven, Cooperative Education Faculty

SDCE: Deborah West, Business and IT Faculty

SD Mesa: Shawn Fawcett, Transfer & Career Counselor

Southwestern: Laura Gershuni, CE Faculty

Region: Mollie Smith, RC Chair

Region: Leslie Wisdom, Program Coordinator

Workgroup 5 Tutoring

SD Mesa: Monica Romero, Associate Dean CTE, Chair
SD Mesa: Danene Brown, CE Dean, Co-Chair
Cuyamaca: Mary Graham, Faculty
Grossmont: Keith Turner, Interim Learning Assistance Center Specialist
Grossmont: Symone McDaniels, Interim LTR Supervisor
IVC: Josue Verduzco, Learning Support Services Coordinator
MiraCosta: Dr. Annie Ngo, Business Faculty
MiraCosta: Mike Fino, Dean of Math and Sciences
Palomar: Shayla Sivert, Dean, Languages & Literature
Palomar: Fari Towfiq, Director of math Learning Center
SD City: Lance Soukhaseum, Tutorial Supervisor
SDCE: Carol Wilkinson, Dean Continuing Education
SD Mesa: Mark Manasse, Tutoring Faculty
SD Mesa: Christine Balderas, Allied Health Faculty
SD Miramar: Dawn Daskin, Accounting Faculty
Southwestern: Shawna Hutchins-Williams, PSP Coordinator
Region: Molly Ash, RC Manager

Data/Research

MiraCosta: Zhenya Lindstrom, Associate Dean, Chair
Region: Tina Ngo Bartel, COE Director, Co-Chair
City: Rose LaMuraglia, CE Dean
Cuyamaca: Brianna Hays, Dean Institutional Effectiveness, Success and Equity
Cuyamaca: Katie Cabral, Research and Planning Analyst
Grossmont: Javier Ayala, CE Dean
Grossmont: Erika Arangure, CTE Program Coordinator
IVC: Jose Carrillo, Director of Institutional Research
MiraCosta: James Clifton, CTE Research Analyst
Palomar: Susan Garland, Senior Grants Administrative Specialist
SD Mesa: Hai Hoang, Research and Planning Analyst
SDCE: Jessica Luedtke, Research and Planning Analyst
SDCCD: Amertah Perman, Dean, Career Education and Workforce
SDCCD: Natalia Cordoba-Velasquez, Director of Institutional Research
SD Miramar: Ben Gamboa, Associate Dean Strong Workforce
Southwestern: Jessica Noel, CTE Research Analyst
Southwestern: Bill Abasolo, Director of Institutional Research and Assessment
Region: John Edwards, Research Analyst (COE)
Region: Victor Castillo, DSN
Region: Leroy Brady, DSN
Region: Mollie Smith, RC Chair
Region: Molly Ash, RC Manager

Workgroup 6 Employer Engagement

Palomar: Margie Fritch, CE Dean, Chair
SDCE: Cassandra Storey, CE Dean, Co-Chair
Cuyamaca: Larry McLemore
Grossmont: Paolo Espaldon, Americas Promise Coordinator
Grossmont: Erika Arangure, CTE Program Coordinator
IVC: Janeth Cruz, Internship Coordinator
MiraCosta: Nina Lovejoy
SD City: Jeanie Tyler, Associate Dean, Strong Workforce
Mesa: Katlin Choi, Assistant Professor, WBL Coordinator
Miramar: Mona Patel, Career Center Coordinator
Southwestern: Nelson Riley, Employment Supervisor
San Diego County OE: Erin English
San Diego County OE: Alex Becker
Region: Jon Kropp, DSN
Region: Jen Patel, DSN
Region: Mollie Smith, RC Chair
Region: Leslie Wisdom, Program Coordinator
Region: Tina Ngo-Bartel
Contract Ed: Kay Faulconer Boger
SDREDC: Matthew Sanford
SDWP: Scott Marchand

Workgroup 7 DSN

Region: Mollie Smith, RC Chair, Chair
Cuyamaca: Larry McLemore, CE Dean
Grossmont: Javier Ayala, CE Dean
IVC: Efrain Silva, CE Dean
MiraCosta: Al Taccone, CE Dean
Palomar: Margie Fritch, CE Dean
SD City: Jeanie Tyler, Associate Dean
SDCE: Cassandra Storey, CE Dean
SD Mesa: Danene Brown, CE Dean
SD Miramar: Jesse Lopez, CE Dean
Southwestern: Jennifer Lewis, CE Dean
Region: all DSNs
Region: Tina Ngo-Bartel, COE Director

Marketing

SD Mesa: Danene Brown, CE Dean, Chair
Cuyamaca: Anne Krueger, PIO
Grossmont: Anne Krueger, PIO
IVC: Patricia Robles, Workforce Coordinator
MiraCosta: Christina Sharp, Faculty
Palomar: Margie Fritch, CE Dean
SD City: Jack Beresford, PIO
SDCE: Jack Beresford, PIO
SD Mesa: Jack Beresford, PIO
SD Miramar: Jack Beresford, PIO
Southwestern: Lillian Leopold, PIO
Region: Tina Ngo Bartel, COE Director
Region: Mollie Smith, RC Chair
Region: Molly Ash, RC Manager

Regional Labor Market Opportunities Regional Labor Market Opportunities

The region collaborates closely with the Centers of Excellence (COE), based at MiraCosta College. COE Director, Tina Ngo Bartel participates in the ROC and WDC. She has reported to SDICCCA regularly. She also works in close collaboration with CTE Deans and faculty around the region. A Data and Research workgroup provides the COE with support and insight on strategic priorities for the research agenda. The CEO cooperates with the two workforce development boards, the San Diego Workforce Partnership and the Imperial Valley Workforce Development Board and the San Diego Regional Economic Development Council.

As a result of the work of the Centers of Excellence, the region has more than 80 labor market briefs on occupations for the region. In addition, we have a report, "Opportunities for Career Education to Close the Middle-Skill Job Gap," for each of the counties. We have produced and distributed Priority & Emerging Sector Posters for students. We also have a Career Education Guide for high school and college counselors. These reports help drive program development for the region and individual colleges with the goal of supporting students in the educational goals, increasing access to high-wage, high-demand careers and increasing social mobility.

The inventory of Labor Market Research offered through the region is located on our website at: <http://myworkforceconnection.org/lmi/>.



SDICCCA Regional Strong Workforce Investment Overview and Detail

As Strong Workforce was launched, the leaders in SDIC determined to invest regional funds in comprehensive systems reform. The focus of our efforts were on building the capacity of the region to better serve students and improving institutions with the goal of increasing access to college and careers and social mobility.

SDIC chose to spend the first year of Strong Workforce researching best practices and using evidence to identify strategies to improve student outcomes.

The region selected five priorities for Strong Workforce reflecting the call to serve **more** students and with **better** outcomes. In 2016-17 these priorities were:

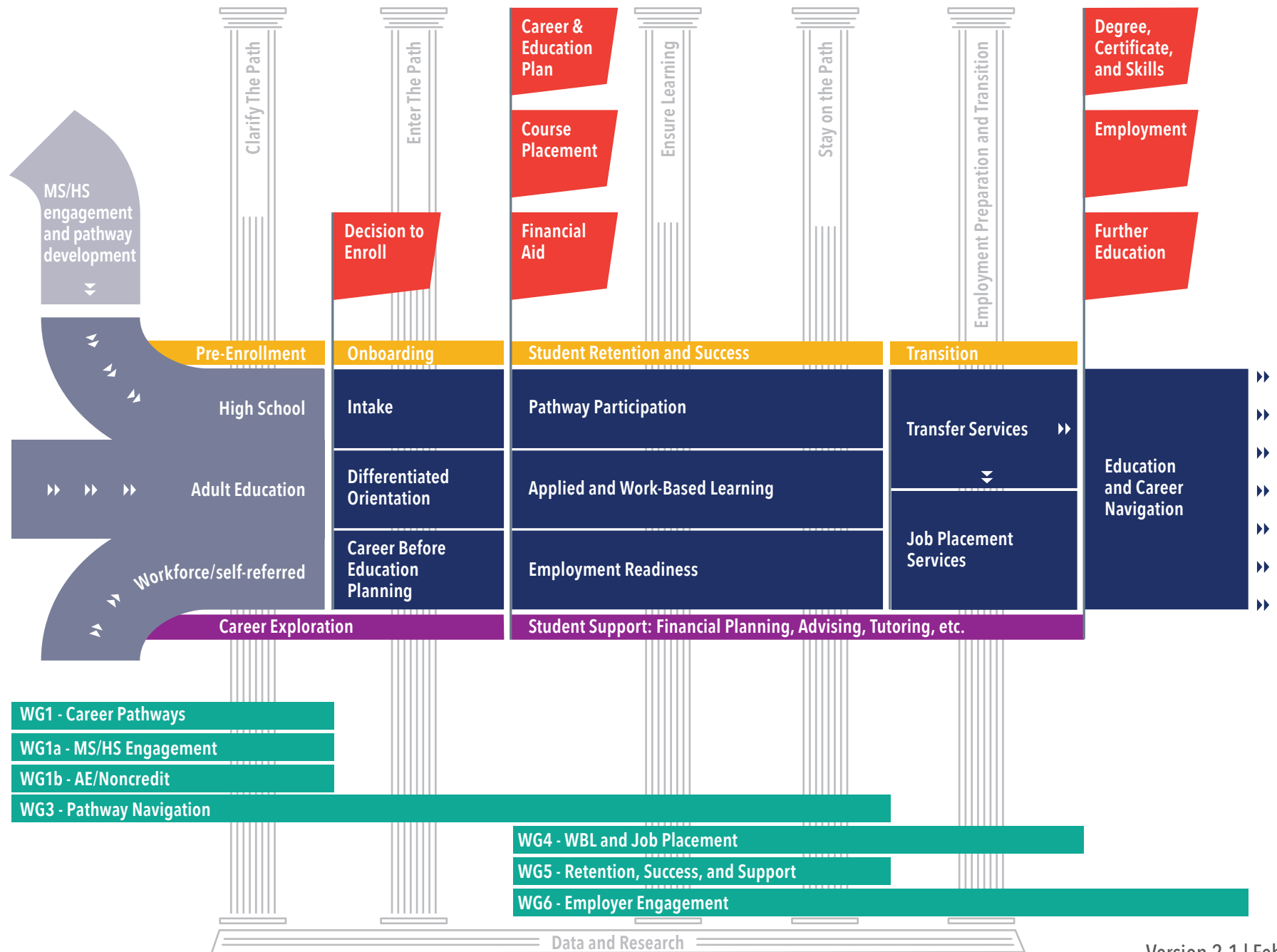
Career Pathways and Work-Based Learning—to better prepare our students for college
Employment Readiness and Job Placement—to better prepare our students for careers and support them in launching their careers
Marketing—to increase awareness of community college career education
Collaborative Projects—to support shared regional program-based priorities
Labor Market Research—to augment the COE to ensure that the colleges had the resources they needed to make informed decisions for students

As the region finished its initial research phase these categories were adapted listed below. The Collaborative Projects category was replaced by Improving the Student Enrollment Experience based on research conducted by the region. These are the projects in the 2017-18 and 2018-19 program years.

- ✓ **Pre-College Outreach and Career Pathways**
- ✓ **Guided Career Pathways: Employment Readiness and Job Placement**
- ✓ **Marketing**
- ✓ **Improving the Student Enrollment Process**
- ✓ **Labor Market Research**

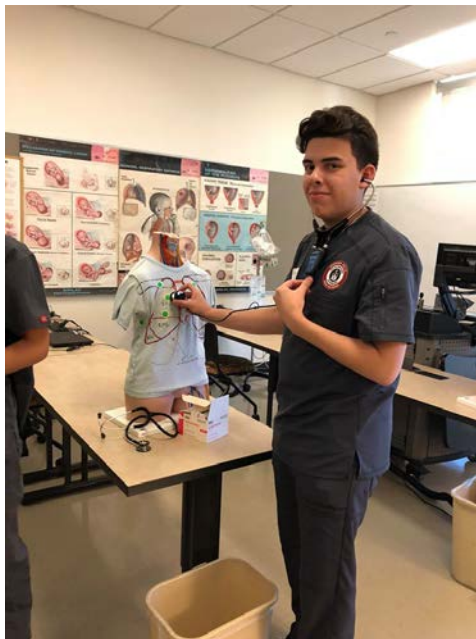
The region's approach to Strong Workforce is represented by the diagram on the next page entitled the Student Roadmap to Success. Following that document is a short summary of the projects SDIC has invested in.

A Community College Student's Road to Success



Project 1. Pre-College Outreach and Career Pathways

Project	Start Date-End Date	Budget	Metrics	Participation	Partners
Pre-College Outreach and Career Pathways	7/17-12/21	Cycle 1 \$625,100 Cycle 2 \$780,000 Cycle 3 \$920,000	1% increase in Course Enrollments per year	All Colleges All Sector	Industry County Office of Education K-12 Districts Adult Education Workforce System
Activity		Output			
Middle & High School Engagement		Approximately 1,000 pre-college students are served with enriching career exploration and enrichment activities that prepare them for community college Career Education programs.			
Professional Development for K-14 & Adult Education Staff		Plan and conduct K-14 counselor conference. Plan and conduct teacher externship opportunities and conferences around industry sector themes.			



Men in Nursing Conference



More than 400 educators participated in the 2018 Counselor Conference

Fall 2018

1,480 High School students engaged in Career Pathways
560 Educators trained

Project 2. Guided Career Pathways: Employment Readiness and Job Placement

Project	Start Date-End Date	Budget	Metrics	Participation	Partners
Guided Career Pathways: Employment Readiness and Job Placement	7/17-12/21	Cycle 1 \$3,000,000 Cycle 2 \$5,000,000 Cycle 3 \$5,500,000	1% increase enrollments, employment and living wage	All Colleges All Sectors	Industry Workforce System Economic Development Agencies
Activity		Output			
Improved Student Pathway Navigation		Each college implements customized improvements to their student on-boarding experience.			
Work-based Learning Coordination and 21 st Century Skills Transfer		Faculty at each college work with other faculty to improve opportunities for work-based learning on their campus. More than 50 faculty are trained on the regional strategy for 21 st Century Skills Transfer.			
Employer Engagement		A comprehensive strategy for employer engagement is developed and implemented in the region.			

Griffin Works Internship Program
Grossmont College Division of Career Technical Education and Workforce Development

YOUR NEXT CAREER OPPORTUNITY STARTS WITH A GROSSMONT COLLEGE INTERNSHIP!

- Learn about industries
- Make valuable connections
- Build your resume
- Get professional experience

Career Center Info Session Dates
February 28, 2019 from 11-12 pm
March 13, 2019 from 2-3 pm
April 3, 2019 from 12-1 pm
Career Center building 60, room 140

For More Info Contact:
Erica Olmos
Career/Internship Program Coordinator
Erica.Olmos@good.edu • (619) 644-7071

PATHWAYS TO ENTREPRENEURSHIP SPEAKER SERIES
SPRING 2019

COME HEAR SAMIYA'S INCREDIBLE JOURNEY IN ENTREPRENEURSHIP!

SAMIYA KADDORY
Tuesday, February 12th
11:30AM-12:30PM
LRC 435
Lunch will be provided.

Samia, a refugee, will share the risks and challenges of starting a successful entrepreneurial venture, California Produce, Inc., a retail and wholesale store in San Diego.

Questions? Contact Howard Duhon at hduhon@palomar.edu or Karissa Chai at kchai@palomar.edu

Request for disability related accommodations should be made no later than 5 working days prior to the event by calling (619) 279-0728.

Get a head-start on your career with hands-on experience

PALOMAR INTERNSHIP FAIR 2018
Tuesday, April 17th
from 10 am to 2 pm
Clock Tower Walk-Way

Meet with employers in a variety of industries to learn about internship opportunities

PALOMAR COLLEGE
Learning for Success

For more information:
Cooperative Education/
Work Experience Department
Phone: 760.744.1150 x2354
Email: Cooped@palomar.edu
Web: https://www2.palomar.edu/pages/cooped/

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Palomar College Cooperative Education Department

CAREER CENTER
HERE TO SERVE YOU!

35,325 students in Work-Based Learning Experiences

Project 3. Marketing

Project	Start Date-End Date	Budget	Metrics	Participation	Partners
Marketing	7/17-12/21	Cycle 1 \$2,000,000 Cycle 2 \$1,500,00 Cycle 3 \$1,336,019	1% increase enrollment	All Colleges All Sectors	Marketing Agency CCCCO
Activity		Output			
Implementing a regional marketing campaign for Career Education.		More than 10 million impressions of the Career Education brand.			

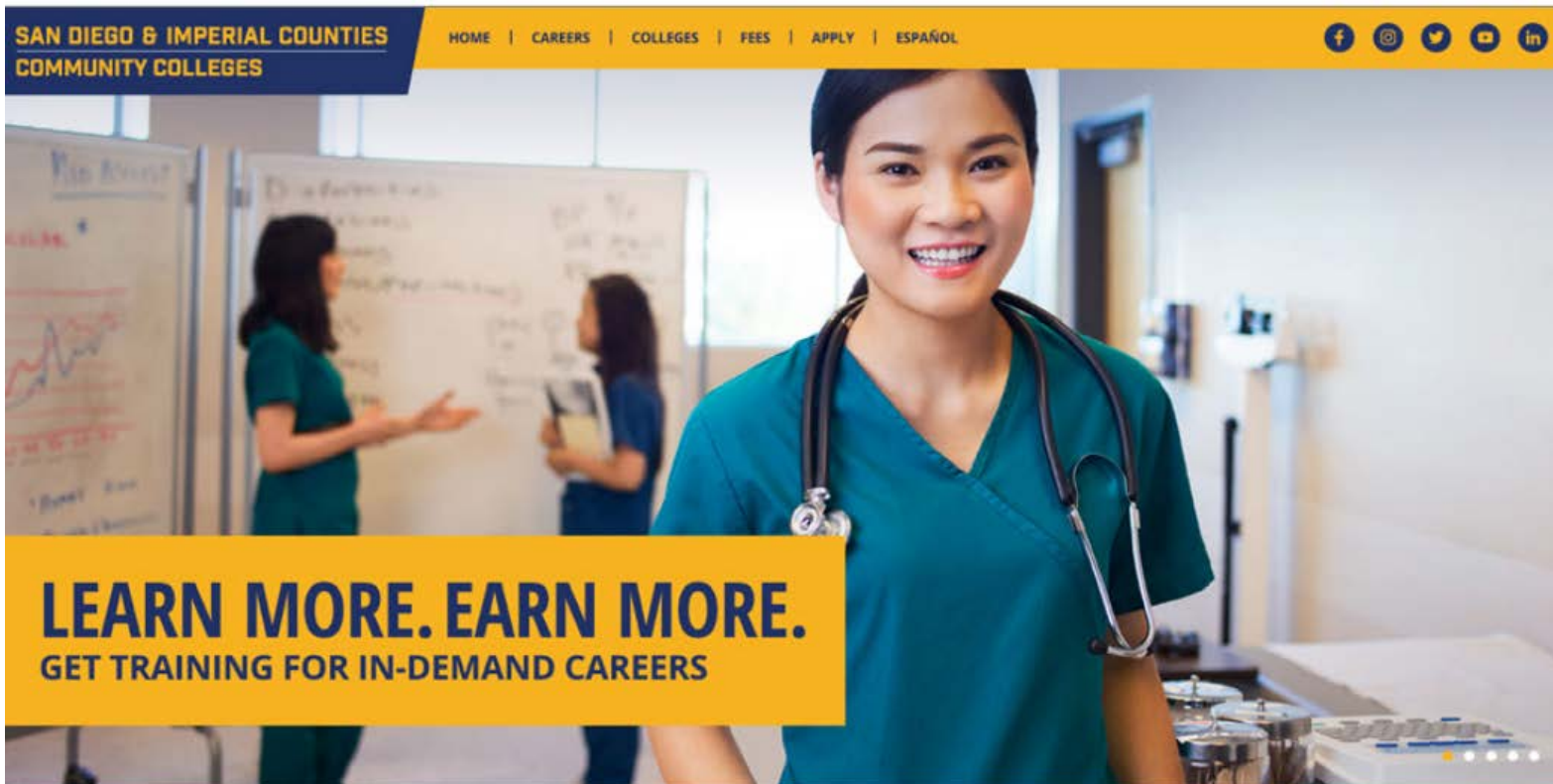


In 2018, SDIC Marketing had more than 40 million impressions viewed by the public



Project 4. Improving the Student Enrollment Experience

Project	Start Date-End Date	Budget	Metrics	Participation	Partners
Improving the Student Enrollment Experience	7/18-12/21	Cycle 2 \$675,000 Cycle 3 \$450,000	1% increase enrollment	All Colleges All Sectors	Marketing Agency CCCCO
Activity		Output			
Each college has the opportunity to make strategic improvements to their websites to improve the student enrollment process with the goal of increasing enrollment.		Ten updated websites.			



Project 5. Labor Market Research

Project	Start Date-End Date	Budget	Metrics	Participation	Partners
Labor Market Research	7/17-12/21	Cycle 1 \$200,000 Cycle 2 \$350,00 Cycle 3 \$350,000	1% increase enrollment	All Colleges	Centers of Excellence CCCCO Workforce System Economic Development Agencies
Activity		Output			
Provide research for evidence-based decision-making for the SDIC region.		Provide research that includes labor market, demand and supply, student outcomes data, and analysis. At least 25 scans and 2 major reports a year.			



Centers of Excellence Labor Market Briefs for San Diego County

- Aircraft Structure, Surfaces, Rigging, and Systems
- Assemblers
- Audio and Video Equipment Technicians
- Automotive Body and Related Repairers
- Automotive Glass Installers and Repairers
- Automotive Service Technicians and Mechanics
- Bus and Truck Mechanics and Diesel Engine Specialists
- Carpenters
- Camera Operators, Television, Video and Motion Picture
- Certified Public Accountant Occupations
- Chemical Technicians
- Coating, Painting, and Spraying Machine Setters, Operators, and Tenders
- Commercial Dance Occupations
- Composites
- Computer Occupations, All Other
- Construction Laborers
- Dental Assistants
- Dental Laboratory Technicians
- Diagnostic Medical Sonographers
- Dispensary Occupations
- Electrical and Electronics Installers and Repairers, Transportation Equipment
- Electrical and Electronics Repairers, Commercial and Industrial Equipment
- Electricians
- Electromechanical Equipment Assemblers
- Electromechanical Technicians
- Electronic Equipment Installers and Repairers, Motor Vehicles
- Energy and Geo-Environmental Engineering Occupations
- Film and Video Editors
- First-Line Supervisors of Construction Trades and Extraction Workers
- First-Line Supervisors of Mechanics, Installers and Repairers
- Food Service Managers
- Health and Wellness Coaches (Health Educators)
- Health Technologists and Technicians, All Other
- Heating, Air Conditioning, and Refrigeration Mechanics and Installers
- Home Appliance Repairers
- Industrial Machinery Mechanics
- Insurance Appraisers, Auto Damage
- Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers
- Lodging Managers
- Makeup Artists, Theatrical and Performance
- Managers, All Other
- Medical Records and Health Information Technicians
- Meeting, Convention and Event Planners
- Mobile Heavy Equipment Mechanics, Except Engines
- Motorboat Mechanics and Service Technicians
- Multimedia Artists and Animators
- Neurodiagnostic Technologists
- Occupational Therapy Aides
- Occupational Therapy Assistants
- Ophthalmic Laboratory Technicians
- Ophthalmic Medical Technicians
- Opticians, Dispensing
- Outdoor Power Equipment and Other Small Engine Mechanics
- Painters, Transportation Equipment
- Pharmacy Technicians
- Photographers
- Podcast Occupations
- Psychiatric Technicians
- Recreational Vehicle Service Technicians
- Recreation Workers
- Registered Behavior Technicians
- Registered Dental Assistant in Expanded Functions
- Set and Exhibit Designers
- Sheet Metal Workers
- Software Developers, Applications
- Solar Photovoltaic Installer
- Sound Engineering Technicians
- Training and Development Managers
- Unmanned Aerial Vehicle (UAV) Pilots

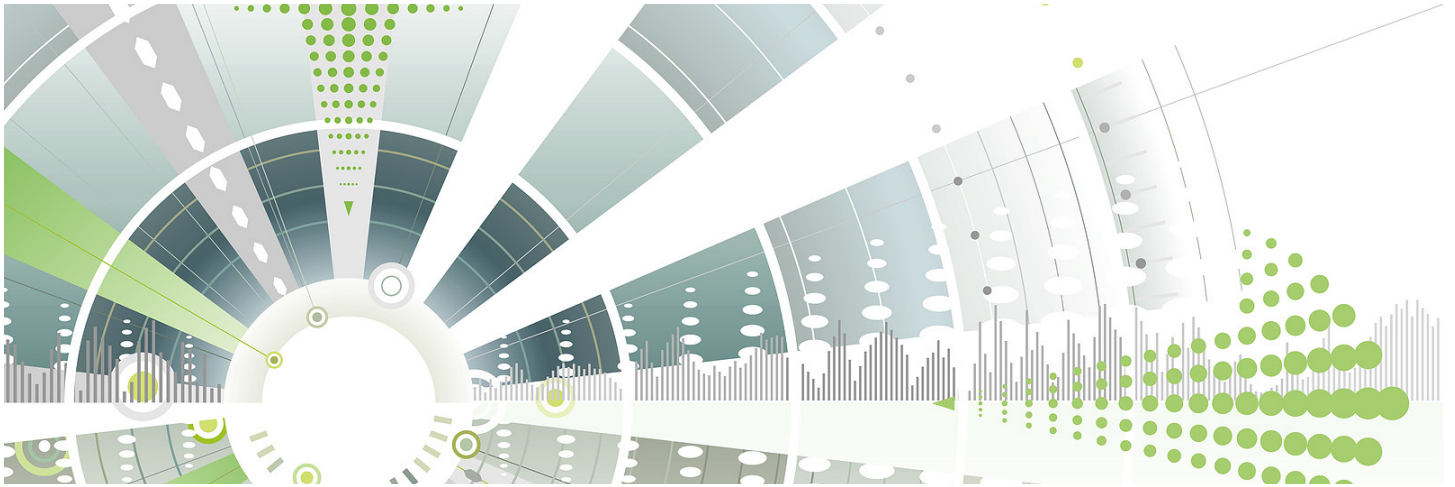
Centers of Excellence Labor Market Briefs for Imperial County

- Animal Control Workers
- Biotechnology Occupations
- Correctional Officers and Jailers
- Electrical and Electronic Equipment Assemblers
- Electrical and Electronic Repairers, Commercial and Industrial Equipment
- Electrical and Electronic Repairers, Powerhouse, Substation and Relay
- Environmental Engineering Technicians
- Environmental Science and Protection Specialists, Including Health
- Engineering Technicians, Except Drafters, All Other
- Hydrologists
- Information Technology Occupations
- Low Voltage Occupations
- Police and Sheriff's Patrol Officers
- Security and Fire Alarm System Installers
- Transit and Railroad Police
- Water and Wastewater Treatment Plant and System Operators

DRAFT

June 2018

SUMMARY



OPPORTUNITIES FOR CAREER EDUCATION TO CLOSE THE MIDDLE-SKILL JOBS GAP

SAN DIEGO COUNTY



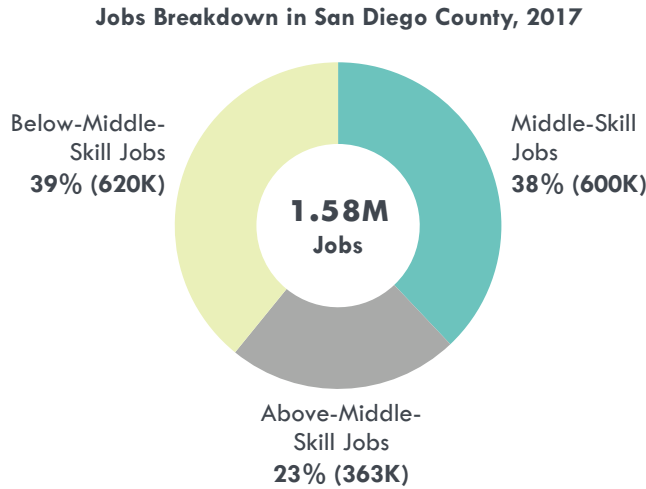
COE

CENTERS OF EXCELLENCE
Inform Connect Advance

THE MIDDLE-SKILL JOB MARKET IN SAN DIEGO COUNTY

This summary highlights key points from the study, Opportunities for Career Education to Close the Middle-Skill Jobs Gap. The study explores where the middle-skill job opportunities are in San Diego County and identifies job gaps that could potentially be filled with public Career Education programs.

Middle-skill jobs constitute a significant portion of the San Diego labor market. In 2017, 38% of the 1,583,115 jobs in San Diego County were middle-skill jobs.



What is a Middle-Skill Job?

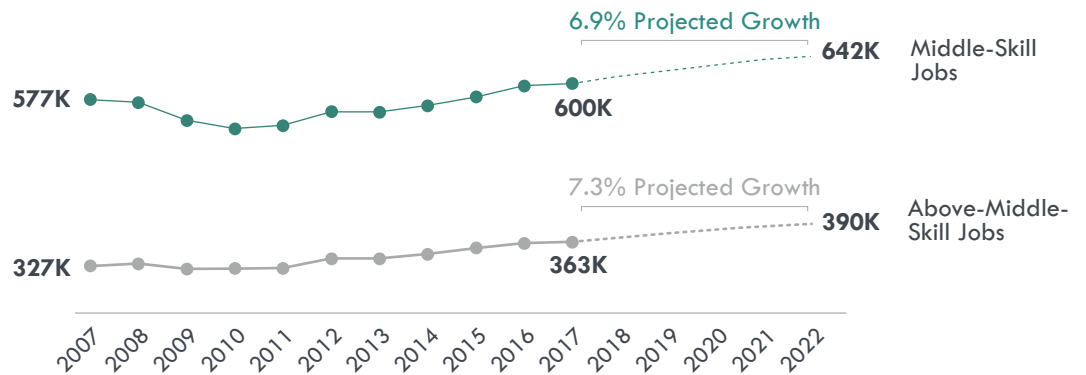
A middle-skill job has the following training requirements:

- > Some college coursework, a postsecondary certificate, and/or an associate degree; or
- > High school diploma or equivalent with on-the-job training greater than 12 months; or
- > Apprenticeship; or
- > Bachelor's degree if at least 33% of workers in the occupation, age 25 or older, have completed, as their highest level of education, some college coursework or an associate degree.

Between 2017 and 2022, the number of middle-skill jobs in the region is projected to increase by 41,450 jobs or 6.9%.



Number of People Employed in Middle-Skill and Above-Middle-Skill Jobs in San Diego County



TOP 100 MIDDLE-SKILL JOBS

There are approximately 300 Standard Occupational Classification (SOC) codes that define middle-skill jobs. This study analyzes the top 100 SOC codes for middle-skill jobs that have the most labor market demand, stable employment growth, and entry-level wages at or above the Self-Sufficiency Standard.¹


88

The number of top middle-skill jobs with supply gaps in the region.


45,457

The number of job openings per year between 2017 and 2022 for the top 100 middle-skill jobs.


29,054

The number of awards that training providers will need to generate to close the supply gap for the top 100 middle-skill jobs.

¹ The Self-Sufficiency Standard is the hourly wage (\$15.99) that a single adult (with no family) needs to earn to meet basic needs in San Diego County. selfsufficiencystandard.org

TOP 100 MIDDLE-SKILL JOBS

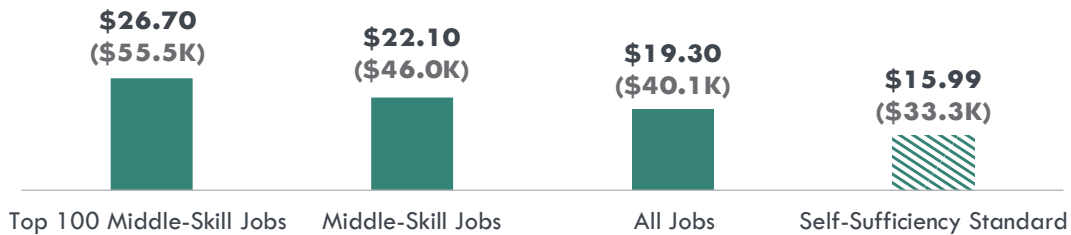
A comparison of labor market demand (annual job openings) with labor supply (program awards) from the region's educational institutions indicates that the top middle-skill jobs have supply gaps.

Administrative Services Managers	Industrial Production Managers
Aircraft Mechanics and Service Technicians	Inspectors, Testers, Sorters, Samplers, and Weighers
Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	Insurance Sales Agents
Architectural and Civil Drafters	Interpreters and Translators
Automotive Body and Related Repairers	Legal Secretaries
Bus and Truck Mechanics and Diesel Engine Specialists	Library Technicians
Bus Drivers, School or Special Client	Licensed Practical and Licensed Vocational Nurses
Business Operations Specialists, All Other	Life, Physical, and Social Science Technicians, All Other
Cargo and Freight Agents	Loan Interviewers and Clerks
Carpenters	Loan Officers
Chefs and Head Cooks	Lodging Managers
Civil Engineering Technicians	Logisticians
Claims Adjusters, Examiners, and Investigators	Machinists
Computer Network Architects	Maintenance and Repair Workers, General
Computer Network Support Specialists	Medical and Clinical Laboratory Technicians
Computer Occupations, All Other	Medical and Clinical Laboratory Technologists
Computer User Support Specialists	Medical Assistants
Computer-Controlled Machine Tool Operators, Metal and Plastic	Medical Records and Health Information Technicians
Construction and Building Inspectors	Medical Secretaries
Construction Managers	Network and Computer Systems Administrators
Correctional Officers and Jailers	Operating Engineers and Other Construction Equipment Operators
Cost Estimators	Paralegals and Legal Assistants
Customer Service Representatives	Payroll and Timekeeping Clerks
Dental Assistants	Pharmacy Technicians
Dental Hygienists	Phlebotomists
Detectives and Criminal Investigators	Photographers
Electrical and Electronic Equipment Assemblers	Physical Therapist Assistants
Electrical and Electronics Engineering Technicians	Plumbers, Pipefitters, and Steamfitters
Electricians	Police and Sheriff's Patrol Officers
Engineering Technicians, Except Drafters, All Other	Production, Planning, and Expediting Clerks
Executive Secretaries and Executive Administrative Assistants	Property, Real Estate, and Community Association Managers
Firefighters	Purchasing Agents, Except Wholesale, Retail, and Farm Products
First-Line Supervisors of Construction Trades and Extraction Workers	Radiologic Technologists
First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand	Registered Nurses
First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	Reservation and Transportation Ticket Agents and Travel Clerks
First-Line Supervisors of Mechanics, Installers, and Repairers	Sales Representatives, Services, All Other
First-Line Supervisors of Non-Retail Sales Workers	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products
First-Line Supervisors of Office and Administrative Support Workers	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive
First-Line Supervisors of Personal Service Workers	Sheet Metal Workers
First-Line Supervisors of Production and Operating Workers	Social and Human Service Assistants
First-Line Supervisors of Retail Sales Workers	Structural Iron and Steel Workers
First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators	Surgical Technologists
Fitness Trainers and Aerobics Instructors	Tax Preparers
Glaziers	Training and Development Specialists
Health Technologists and Technicians, All Other	Transportation, Storage, and Distribution Managers
Healthcare Support Workers, All Other	Veterinary Technologists and Technicians
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	Water and Wastewater Treatment Plant and System Operators
Heavy and Tractor-Trailer Truck Drivers	Web Developers
Human Resources Assistants, Except Payroll and Timekeeping	Welders, Cutters, Solderers, and Brazers
Industrial Machinery Mechanics	Wholesale and Retail Buyers, Except Farm Products

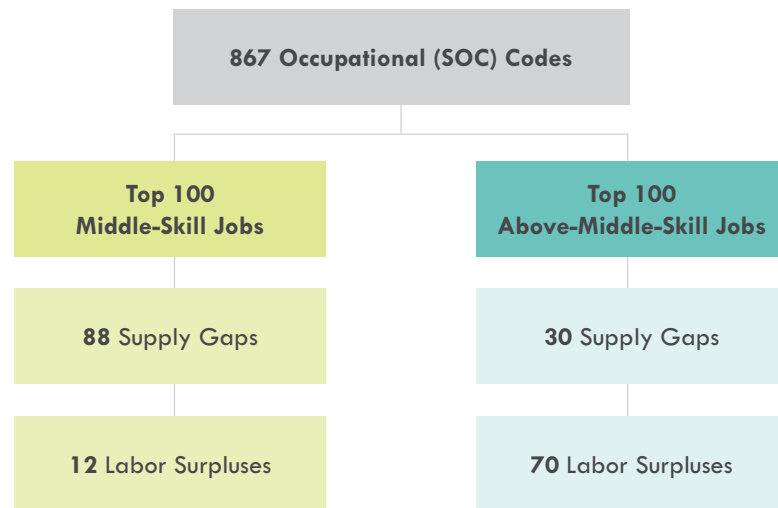
KEY FINDINGS

Training for the top 100 middle-skill jobs can provide job seekers with opportunities for income mobility: The average median hourly wage of all middle-skill jobs is \$22.10, the average median hourly wage of all jobs in the region is \$19.30, and the Self-Sufficiency Standard is \$15.99. The average median hourly wage of the top 100 middle-skill jobs analyzed in this study is \$26.70, which is higher than all three.

Median Hourly Earnings (Annual Salary) vs. Self-Sufficiency Standard



Of the top 100 middle-skill jobs identified in this study, 88 have supply gaps and 12 have labor surpluses (an oversupply of labor). Comparatively, the top 100 above-middle-skill jobs have 30 supply gaps, suggesting that middle-skill jobs have more opportunities to develop programs than above-middle-skill jobs.



The top 100 middle-skill jobs have a labor market demand of 45,457 annual job openings and a program supply of 16,403 awards. That is a difference of 29,054 awards that could be produced by the region to meet labor market demand.

Not all middle-skill jobs require an associate degree. Of the 45,457 annual job openings, 16% are related to supervisory or management roles, 17% are related to sales roles, and 17% are related to administrative or secretarial roles. The majority of these occupations require less than an associate degree as their typical entry-level education. This suggests that there are opportunities for short-term certificate programs that can fill these roles. Short-term certificate programs require less than two years to complete.

Percentage of Annual Job Openings with Management, Sales or Administrative Job Titles² (Top 100 Middle-Skill Jobs)



² These percentages have some overlap because an occupation may have more than one role: For example, First-Line Supervisors of Office and Administrative Support Workers are both supervisory and administrative positions.

RECOMMENDATIONS FOR MORE PROGRAM SUPPLY

Career Education programs can help fill labor supply gaps with short-term certificates or associate degrees. The following list of six-digit Taxonomy of Programs (TOP6) codes are recommended for increased awards to close the supply gap. The TOP system is used at the state level to collect and report information on community college programs. Existing TOP6 programs that train for occupations with a supply gap of at least 100 job openings are included below. The full list of TOP6 programs that train for occupations with supply gaps can be found in the full report. Programs with an asterisk (*) may be suitable for short-term certificate programs.

TOP6	TOP6 Program Title	TOP6	TOP6 Program Title
050400	Banking and Finance	095220	Electrical
050630	Management Development and Supervision*	095230	Plumbing, Pipefitting, and Steamfitting
050640	Small Business and Entrepreneurship	095250	Mill and Cabinet Work
050650	Retail Store Operations and Management	095260	Masonry, Tile, Cement, Lath and Plaster
050800	International Business and Trade*	095280	Drywall and Insulation
050900	Marketing and Distribution*	095500	Laboratory Science Technology
050940	Sales and Salesmanship*	095600	Manufacturing and Industrial Technology
050970	E-Commerce (Business Emphasis)*	095630	Machining and Machine Tools
051000	Logistics and Materials Transportation*	095640	Sheet Metal and Structural Metal
051100	Real Estate	095680	Industrial Quality Control*
051110	Escrow	095720	Construction Inspection
051200	Insurance*	120500	Medical Laboratory Technology
051400	Office Technology/Office Computer Applications*	120510	Phlebotomy
051410	Legal Office Technology*	120820	Administrative Medical Assisting*
051420	Medical Office Technology	120830	Health Facility Unit Coordinator
051440	Office Management*	121100	Polysomnography
070210	Software Applications	121200	Electro-Neurodiagnostic Technology
070730	Computer Systems Analysis	121400	Orthopedic Assistant
070800	Computer Infrastructure and Support	122000	Speech/Language Pathology and Audiology
070820	Computer Support	122100	Pharmacy Technology
092400	Engineering Technology, General	122300	Health Information Technology
093400	Electronics and Electric Technology	122310	Health Information Coding
093410	Computer Electronics	123020	Licensed Vocational Nursing
093430	Telecommunications Technology	123010	Registered Nursing
093440	Electrical Systems and Power Transmission	124010	Dental Assistant
093470	Electron Microscopy	124020	Dental Hygienist
094300	Instrumentation Technology	130320	Fashion Merchandising*
094500	Industrial Systems Technology and Maintenance	140200	Paralegal
094610	Energy Systems Technology	160200	Library Technician (Aide)
094700	Diesel Technology	210210	Public Works
094730	Heavy Equipment Operation	210510	Corrections
094740	Railroad and Light Rail Operations*	210540	Forensics, Evidence, and Investigation
094900	Automotive Collision Repair	210550	Police Academy
095210	Carpentry	300900	Travel Services and Tourism*

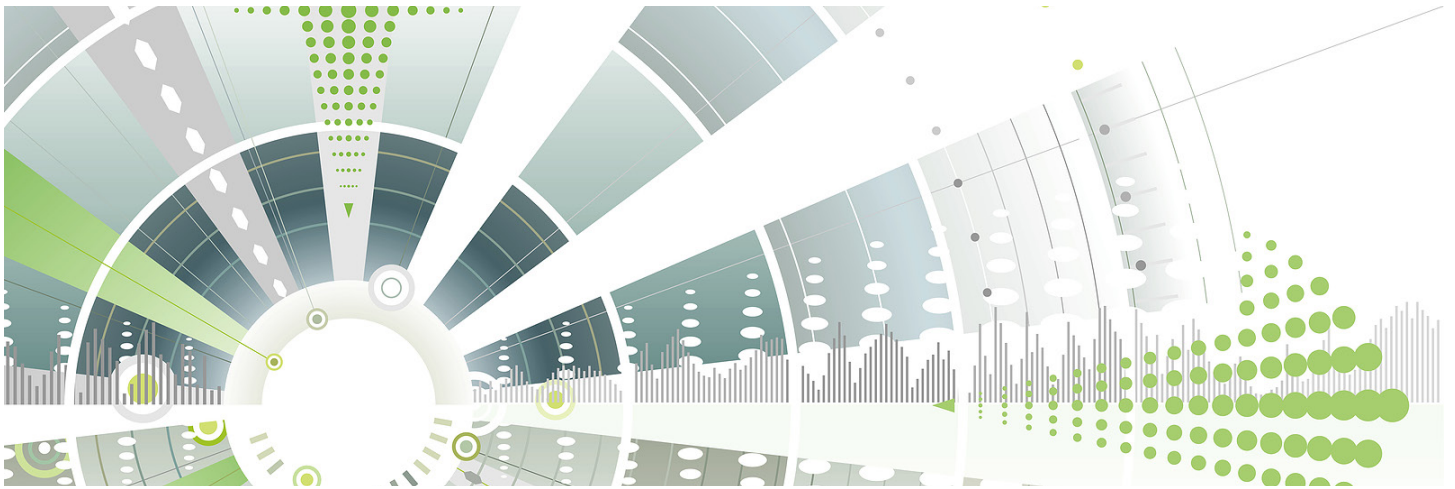
RECOMMENDATIONS FOR FURTHER ANALYSIS

Further research coupled with this labor market study may help with decision-making in regard to programs and course offerings:

- **Conduct primary research to validate these recommendations with employers:** This study provides lists of recommended TOP codes for short-term certificate and associate degree programs. However, the recommendations have not been validated by industry or businesses. Collecting primary data directly from employers will help further confirm program recommendations.
- **Examine how well existing programs currently meet labor market needs:** While this study makes recommendations for program development based on labor market information, it lacks information about the programs themselves. By conducting a program evaluation, the community colleges can gain insight as to why so many programs exist in the region for the top 100 middle-skill jobs, but supply from each program is low.
- **Validate whether the recommended TOP codes for short-term certificate programs currently train skills-builders:** Many of the TOP codes that this study recommends for short-term certificate programs may already train for skills-builders in the region. Skills-builders are students who take higher-level Career Education courses, but do not complete a community college program or transfer to a four-year institution. These skills-builders may take a college course to obtain new skills and/or to increase their earnings, but do not need to complete an associate degree program to achieve those goals. By understanding what programs train skills-builders, colleges in the region may want to consider which courses, rather than programs, to market to students and working professionals.

June 2018

SUMMARY



OPPORTUNITIES FOR CAREER EDUCATION TO CLOSE THE MIDDLE-SKILL JOBS GAP

IMPERIAL COUNTY



C·O·E

CENTERS OF EXCELLENCE

Inform Connect Advance



SDICCCA

SAN DIEGO & IMPERIAL COUNTIES
COMMUNITY COLLEGES ASSOCIATION

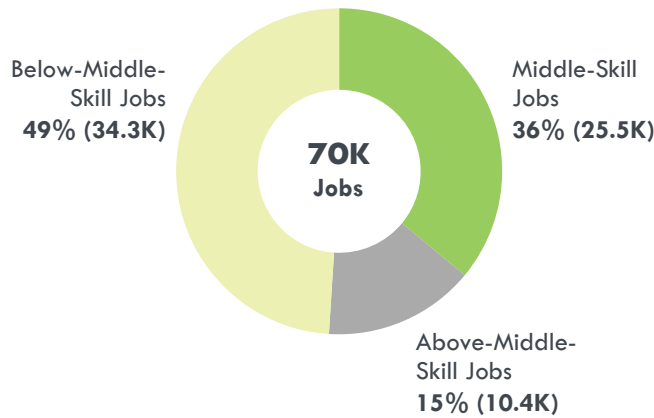
Caprica • Grossmont • Imperial Valley • MiraCosta • Palomar • San Diego City
San Diego Continuing Education • San Diego Mesa • San Diego Miramar • Southwestern

THE MIDDLE-SKILL JOB MARKET IN IMPERIAL COUNTY

This summary highlights key points from the study, Opportunities for Career Education to Close the Middle-Skill Jobs Gap. The study explores where the middle-skill job opportunities are in Imperial County and identifies job gaps that could potentially be filled with public Career Education programs.

Middle-skill jobs constitute a significant portion of the Imperial County labor market. In 2017, 36% of the 69,859 jobs in Imperial County were middle-skill jobs.

Jobs Breakdown in Imperial County, 2017



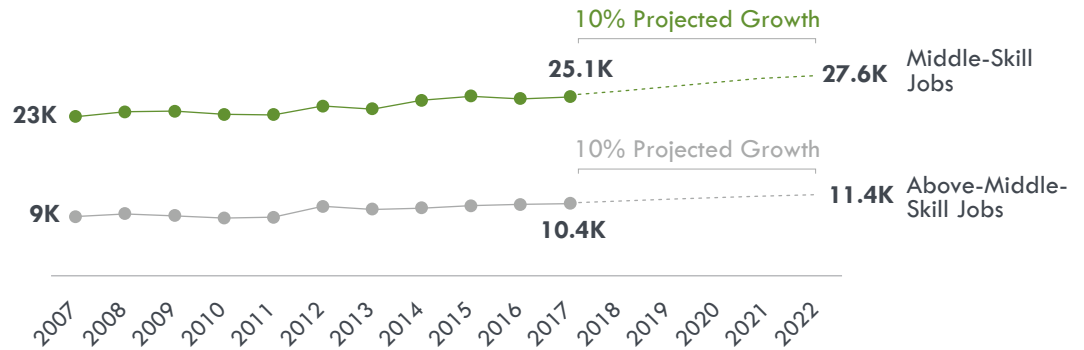
What is a Middle-Skill Job?

A middle-skill job has the following training requirements:

- > Some college coursework, a postsecondary certificate, and/or an associate degree; or
- > High school diploma or equivalent with on-the-job training greater than 12 months; or
- > Apprenticeship; or
- > Bachelor's degree if at least 33% of workers in the occupation, age 25 or older, have completed, as their highest level of education, some college coursework or an associate degree.

Number of People Employed in Middle-Skill and Above-Middle-Skill Jobs in Imperial County

Between 2017 and 2022, the number of middle-skill jobs in the region is projected to increase by 2,409 jobs or 10%.



TOP 100 MIDDLE-SKILL JOBS

There are 298 Standard Occupational Classification (SOC) codes that define middle-skill jobs. This study analyzes the top 100 SOC codes for middle-skill jobs that have the most labor market demand, stable employment growth, and entry-level wages at or above the Self-Sufficiency Standard.¹

90

The number of top middle-skill jobs with supply gaps in the region.

2,260

The number of job openings per year between 2017 and 2022 for the top 100 middle-skill jobs.

1,861

The number of awards that training providers will need to generate to close the supply gap for the top 100 middle-skill jobs.

¹ The Self-Sufficiency Standard is the hourly wage (\$11.32) that a single adult in a two-adult household with two children needs to earn to meet basic needs in Imperial County.

TOP 100 MIDDLE-SKILL JOBS

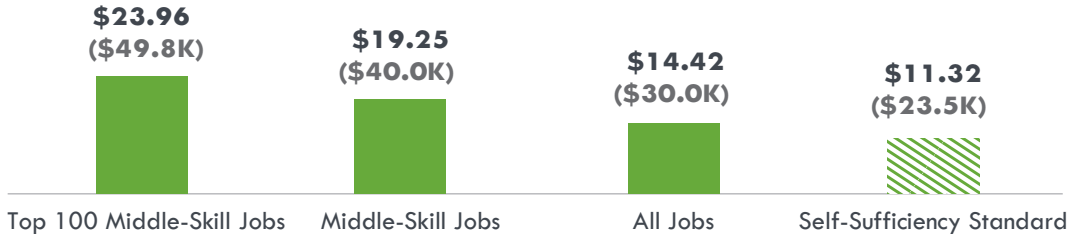
A comparison of labor market demand (annual job openings) with labor supply (program awards) from the region's educational institutions indicates that there are 91 top middle-skill jobs with supply gaps. Occupations with an asterisk (*) indicate an oversupply.

Administrative Services Managers*	Heating, Air Conditioning, and Refrigeration Mechanics and Installers*
Automotive Body and Related Repairers	Heavy and Tractor-Trailer Truck Drivers
Bookkeeping, Accounting, and Auditing Clerks	Human Resources Assistants, Except Payroll and Timekeeping
Bus and Truck Mechanics and Diesel Engine Specialists	Industrial Machinery Mechanics
Bus Drivers, School or Special Client	Industrial Production Managers
Bus Drivers, Transit and Intercity	Insurance Sales Agents
Business Operations Specialists, All Other	Interpreters and Translators
Carpenters	Legal Secretaries
Chefs and Head Cooks	Library Technicians
Claims Adjusters, Examiners, and Investigators	Licensed Practical and Licensed Vocational Nurses
Community Health Workers	Loan Interviewers and Clerks
Computer Network Support Specialists	Loan Officers
Computer Occupations, All Other	Machinists
Computer User Support Specialists*	Maintenance and Repair Workers, General
Computer, Automated Teller, and Office Machine Repairers	Massage Therapists
Construction and Building Inspectors	Medical and Clinical Laboratory Technicians
Construction Managers	Medical Assistants
Correctional Officers and Jailers	Medical Records and Health Information Technicians
Cost Estimators*	Medical Secretaries
Customer Service Representatives	Mobile Heavy Equipment Mechanics, Except Engines
Data Entry Keyers	Network and Computer Systems Administrators
Dental Assistants	Nursing Assistants
Detectives and Criminal Investigators	Operating Engineers and Other Construction Equipment Operators
Electrical and Electronics Repairers, Powerhouse, Substation, and Relay*	Paralegals and Legal Assistants
Electrical Power-Line Installers and Repairers	Payroll and Timekeeping Clerks
Electricians	Pesticide Handlers, Sprayers, and Applicators, Vegetation
Emergency Medical Technicians and Paramedics	Pharmacy Technicians*
Executive Secretaries and Executive Administrative Assistants	Phlebotomists
Farm Equipment Mechanics and Service Technicians	Plumbers, Pipefitters, and Steamfitters
Firefighters	Police and Sheriff's Patrol Officers
First-Line Supervisors of Construction Trades and Extraction Workers	Power Plant Operators
First-Line Supervisors of Correctional Officers	Preschool Teachers, Except Special Education*
First-Line Supervisors of Farming, Fishing, and Forestry Workers	Production, Planning, and Expediting Clerks
First-Line Supervisors of Fire Fighting and Prevention Workers	Property, Real Estate, and Community Association Managers
First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand	Purchasing Agents, Except Wholesale, Retail, and Farm Products
First-Line Supervisors of Housekeeping and Janitorial Workers	Radiologic Technologists
First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	Real Estate Sales Agents
First-Line Supervisors of Mechanics, Installers, and Repairers	Registered Nurses
First-Line Supervisors of Non-Retail Sales Workers	Sales and Related Workers, All Other
First-Line Supervisors of Office and Administrative Support Workers	Sales Representatives, Services, All Other
First-Line Supervisors of Personal Service Workers	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products
First-Line Supervisors of Production and Operating Workers	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive
First-Line Supervisors of Protective Service Workers, All Other	Social and Human Service Assistants
First-Line Supervisors of Retail Sales Workers	Telecommunications Equipment Installers and Repairers, Except Line Installers
First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators	Tellers
Fitness Trainers and Aerobics Instructors	Training and Development Specialists
Forest and Conservation Technicians	Transportation, Storage, and Distribution Managers
Graphic Designers	Water and Wastewater Treatment Plant and System Operators*
Health Technologists and Technicians, All Other	Welders, Cutters, Solderers, and Brazers
Healthcare Support Workers, All Other	Wholesale and Retail Buyers, Except Farm Products

KEY FINDINGS

Training for the top 100 middle-skill jobs can provide job seekers with opportunities for income mobility: The average median hourly wage of all middle-skill jobs is \$19.25, the average median hourly wage of all jobs in the region is \$14.42, and the Self-Sufficiency Standard is \$11.32. The average median hourly earnings of the top 100 middle-skill jobs analyzed in this study is \$23.96, which is higher than all three.

Median Hourly Earnings (Annual Salary) vs. Self-Sufficiency Standard



Of the top 100 middle-skill jobs identified in this study, 90 have supply gaps, 8 have labor surpluses (an oversupply of labor), and 2 have neither. Comparatively, the top 100 above-middle-skill jobs have 70 supply gaps, suggesting that middle-skill jobs have more opportunities to develop programs than above-middle-skill jobs.



The top 100 middle-skill jobs have a labor market demand of 2,260 annual job openings and a program supply of 399 awards. That is a difference of 1,861 awards that could be produced by the region to meet labor market demand.

Not all middle-skill jobs require an associate degree. Of the 2,260 annual job openings, 18% are related to supervisory or management roles, 15% are related to administrative or secretarial roles, and 13% are related to sales roles. The majority of these occupations require less than an associate degree as their typical entry-level education. This suggests that there are opportunities for short-term certificate programs that can fill these roles. Short-term certificate programs require less than two years to complete.

Percentage of Annual Job Openings with Management, Sales or Administrative Job Titles³
(Top 100 Middle-Skill Jobs)



² There is insufficient data to calculate the supply gap for 13 occupational codes in the above-middle-skill jobs category

³ These percentages have some overlap because an occupation may have more than one role: For example, First-Line Supervisors of Office and Administrative Support Workers are both supervisory and administrative positions.

RECOMMENDATIONS FOR MORE PROGRAM SUPPLY

Career Education programs can help fill the supply gaps with short-term certificates or associate degrees. The following list of six-digit Taxonomy of Programs (TOP6) codes are recommended for increased awards to close the supply gap. The TOP system is used at the state level to collect and report information on community college programs. TOP6 programs that train for occupations with a supply gap of at least 5 job openings are included below. Programs with an asterisk (*) may be suitable for short-term certificate programs.

TOP6	TOP6 Program Title	TOP6	TOP6 Program Title
010300	Plant Science	095220	Electrical
010310	Agricultural Pest Control Adviser and Operator (Licensed)*	095230	Plumbing, Pipefitting, and Steamfitting
010930	Nursery Technology*	095600	Manufacturing and Industrial Technology
011400	Forestry	095630	Machining and Machine Tools
011600	Agricultural Power Equipment Technology	095650	Welding Technology
050200	Accounting	095700	Civil and Construction Management Technology
050400	Banking and Finance*	120510	Phlebotomy*
050630	Management Development and Supervision*	120800	Medical Assisting
050640	Small Business and Entrepreneurship	120810	Clinical Medical Assisting
050650	Retail Store Operations and Management*	120820	Administrative Medical Assisting*
050800	International Business and Trade*	120830	Health Facility Unit Coordinator*
050900	Marketing and Distribution*	122000	Speech/Language Pathology and Audiology*
050920	Purchasing	122300	Health Information Technology*
050940	Sales and Salesmanship*	122310	Health Information Coding*
050970	E-Commerce (Business Emphasis)*	122500	Radiologic Technology
051000	Logistics and Materials Transportation*	123000	Nursing
051100	Real Estate*	123010	Registered Nursing
051110	Escrow	123020	Licensed Vocational Nursing
051200	Insurance*	123030	Certified Nurse Assistant
051400	Office Technology/Office Computer Applications*	124010	Dental Assistant
051410	Legal Office Technology*	126200	Massage Therapy*
051420	Medical Office Technology*	130600	Nutrition, Foods, and Culinary Arts*
051440	Office Management	130630	Culinary Arts*
086000	Educational Technology	130710	Restaurant and Food Services and Management*
093430	Telecommunications Technology	140200	Paralegal
093440	Electrical Systems and Power Transmission	160200	Library Technician (Aide)*
094500	Industrial Systems Technology and Maintenance	210400	Human Services*
094700	Diesel Technology	210440	Alcohol and Controlled Substances*
094720	Heavy Equipment Maintenance	210510	Corrections
094730	Heavy Equipment Operation	210540	Forensics, Evidence, and Investigation*
094740	Railroad and Light Rail Operations	210550	Police Academy
094750	Truck and Bus Driving*	213300	Fire Technology
094900	Automotive Collision Repair*	213350	Fire Academy
095200	Construction Crafts Technology	219900	Other Public and Protective Services*
095210	Carpentry	300700	Cosmetology and Barbering*

RECOMMENDATIONS FOR FURTHER ANALYSIS

Further research coupled with this labor market study may help with decision-making in regard to programs and course offerings:

- **Conduct primary research to validate these recommendations with employers:** This study provides lists of recommended TOP codes for short-term certificate and associate degree programs. However, the recommendations have not been validated by industry or businesses. Collecting primary data directly from employers will help further confirm program recommendations.
- **Examine how well existing programs currently meet labor market needs:** While this study makes recommendations for program development based on labor market information, it lacks information about the programs themselves. By conducting a program evaluation, the community colleges can gain insight as to why so many programs exist in the region for the top 100 middle-skill jobs, but supply from each program is low.
- **Validate whether the recommended TOP codes for short-term certificate programs currently train skills-builders:** Many of the TOP codes that this study recommends for short-term certificate programs may already train for skills-builders in the region. Skills-builders are students who take higher-level Career Education courses, but do not complete a community college program or transfer to a four-year institution. These skills-builders may take a college course to obtain new skills and/or to increase their earnings, but do not need to complete an associate degree program to achieve those goals. By understanding what programs train skills-builders, colleges in the region may want to consider which courses, rather than programs, to market to students and working professionals.

Self Awareness

Career Awareness

Career Exploration

Career Preparation

Learning about ONESELF

Build awareness of strengths, interests and values and connect this information to future purpose and **career** through reflection and related metacognitive activities.

Classroom and School

- Curriculum and tools to identify strengths, interests and values and connections to career
- Personalized learning experiences and activities to unlock students’ strengths and potential
- Building students’ sense of themselves as “college and career bound”

Learning ABOUT a wide variety of careers

Build awareness of the variety of careers available and the preparation required to obtain a career; broaden student options.

Classroom and School

- Career contextual instruction
- Exposure to career pathways
- Projects
- Building skills and habits of mind needed for HS, college, career, and life success, including social-emotional and “21st Century” skills
- Building a “love of learning”
- Building respect for all work

Learning ABOUT work and exploring, research and planning for career

Explore career and post-secondary options for the purpose of motivating students and to inform their decision making in secondary school through postsecondary education.

Classroom and School

- Courses, experiences and clubs
- Pathway exploration
- Integrated curriculum
- Classroom simulations
- Career-focused projects, assignments and assessments
- Building skills and habits of mind needed for HS, college, and career, and life success, including social-emotional and “21st Century” skills

Learning THROUGH work

Apply learning through practical experience that develops knowledge and skills necessary for success in careers and postsecondary education.

Classroom and School

- Core academic preparation
- Career technical courses and programs
- Career-related project-based learning
- College and career portfolio that carries forward from year to year
- Building skills and habits of mind needed for HS, college, and career, and life success, including social-emotional and “21st Century” skills

Self Awareness

Career Awareness

Career Exploration

Career Preparation

Learning about ONESELF

Build awareness of strengths, interests and values and connect this information to future purpose and career through reflection and related metacognitive activities.

Classroom and School

- Curriculum and tools to identify strengths, interests and values and connections to career
- Career Interest/strength/values assessment
- Personalized learning experiences and activities to unlock students' strengths and potential

Family Engagement

- Exposure of parents and guardians to the concept of career and educational options through self-awareness

Learning ABOUT a wide variety of careers

Build awareness of the variety of careers available and the preparation required to obtain a career; broaden student options.

Classroom and School

About Careers

- Web Research
- Use of valid, reliable, and reputable career interest/strength/values assessments, supported by qualified career advising
- Exposure to career pathways

About Postsecondary Education

- College awareness and building expectations about future college attendance

Family Engagement

- Parent/guardian career workshops and review of career pathway maps, with focus on engaging parents/guardians meaningfully through their own experiences and completion of career assessments as appropriate
- Labor market information provided to parents to help guide and support students in the exploration of their interests

Learning ABOUT work and exploring, research and planning for career

Explore career and post-secondary options for the purpose of motivating students and to inform their decision making in secondary school through postsecondary education.

Classroom and School

About Careers

- Career plan development
- Financial literacy

About Postsecondary Education

- College exploration

Family Engagement

- Parent/guardian review of career pathway maps to facilitate children's pathway selection; guidance on how to coach their children
- Labor market information provided to parents and guardians to help guide and support students in the exploration of their career pathway interests.
- Guidance to parents and guardians on college and career resources

Learning THROUGH work

Apply learning through practical experience that develops knowledge and skills necessary for success in careers and postsecondary education.

Classroom and School

About Careers

- Career plan development
- Financial literacy
- College and career portfolio that carries forward from year to year

About Postsecondary Education

- College exploration
- Introduction to education planning

Family Engagement

- Engagement of parents and guardians in decisions about career pathway selection
- Participation of parents and guardians in pathway activities
- Guidance to parents and guardians on how to coach their children in preparation for postsecondary
- Engagement of parents and guardians in decisions about postsecondary options in view of children's career interests

Self Awareness

Learning about ONESELF

Build awareness of strengths, interests and values and connect this information to future purpose and career through reflection and related metacognitive activities.

Experiences might include:

- Industry tours
- Guest speakers
- Adult role models
- Role model observation
- Progression of responsibility
- Service activities

Career Awareness

Learning ABOUT a wide variety of careers

Build awareness of the variety of careers available and the preparation required to obtain and succeed in a career; broaden student options.

Experiences might include:

- Guest speakers
- Industry tours
- Career Fairs
- Visit parents at work

Career Exploration

Learning ABOUT work and exploring, research and planning for career

Explore career and post-secondary options for the purpose of motivating students and to inform their decision making in secondary school and postsecondary education.

Experiences might include:

- Informational interview
- Job shadow
- Virtual exchange with a partner
- Professional mentor through a industry focused student organization
- Civic engagement/community service

Career Preparation

Learning THROUGH work

Apply learning through practical experience that develops knowledge and skills necessary for success in careers and postsecondary education.

Experiences might include:

- Integrated project with multiple interactions with professionals
- Student-run enterprise with partner involvement
- Virtual experiences with industry
- Projects with partners through industry focused student organization
- Service learning and social enterprises with partners

Self Awareness

Learning about ONESELF

Build awareness of strengths, interests and values and connect this information to future purpose and career through reflection and related metacognitive activities.

Experiences may include:

- Experiencing self as "belonging" among those who attend college, by seeing and speaking with peer role models in college
- Guest speakers from postsecondary
- Links to community-based organizations and clubs that expose students to postsecondary opportunities in areas of interest

Career Awareness

Learning ABOUT a wide variety of careers

Build awareness of the variety of careers available and the preparation required to obtain a career; broaden student options.

Experiences may include:

- Guest speakers from postsecondary

Career Exploration

Learning ABOUT work and exploring, research and planning for career

Explore career and post-secondary options for the purpose of motivating students and to inform their decision making in secondary school through postsecondary education.

Experiences may include:

- Guest speakers from postsecondary
- Interviews with college students
- College tours

Career Preparation

Learning THROUGH work

Apply learning through practical experience that develops knowledge and skills necessary for success in careers and postsecondary education.

Experiences may include:

- Guest speakers from postsecondary
- Interviews with college students
- College tours
- College fairs, including interviews with college admissions officers

Self Awareness

Learning about ONESELF

Build awareness of strengths, interests and values and connect this information to future purpose and career through reflection and related metacognitive activities.

Classroom and School

- Curriculum and tools to identify strengths, interests and values and connections to career
- Personalized learning experiences and activities to unlock students' strengths and potential
- Building students' sense of themselves as "college and career bound"

Career Awareness

Learning ABOUT a wide variety of careers

Build awareness of the variety of careers available and the preparation required to obtain a career; broaden student options.

Classroom and School

- Career contextual instruction
- Exposure to career pathways
- Projects
- Building skills and habits of mind needed for HS, college, career, and life success, including social-emotional and "21st Century" skills
- Building a "love of learning"
- Building respect for all work

Career Exploration

Learning ABOUT work and exploring, research and planning for career

Explore career and post-secondary options for the purpose of motivating students and to inform their decision making in secondary school through postsecondary education.

Classroom and School

- Career pathways, courses, experiences and clubs
- Integrated curriculum
- Simulated environments
- Career-focused projects, assignments and assessments
- College and career portfolio that carries forward from year to year
- Building skills and habits of mind needed for HS, college, and career, and life success, including social-emotional and "21st Century" skills

Career Preparation: Practicum & Internships

Learning THROUGH work

Apply learning through practical experience that develops knowledge and skills necessary for success in careers and postsecondary education.

Classroom and School

- Freshman transition courses
- Core academic preparation
- Career technical courses and programs
- Career-related project-based learning
- Advanced level courses related to career
- Building skills and habits of mind needed for HS, college, and career, and life success, including social-emotional and "21st Century" skills
- Occupational certifications
- Work-ready certification/"21st century" skills

Career Training

Learning FOR work

Train for employment and/or postsecondary education in a specific range of occupations.

Classroom and School

- Work-ready certification/"21st century" skills
- Occupational certifications

Self Awareness

Learning about ONESELF

Build awareness of strengths, interests and values and connect this information to future purpose and career through reflection and related metacognitive activities.

Classroom and School

- Curriculum and tools to identify strengths, interests and values and connections to career
- Career Assessment Interests/Skills/Values
- Personalized learning experiences and activities to unlock students' strengths and potential

Family Engagement

- Exposure of parents and guardians to the concept of career and educational options through self-awareness

Career Awareness

Learning ABOUT a wide variety of careers

Build awareness of the variety of careers available and the preparation required to obtain a career; broaden student options.

Classroom and School

About Careers

- Web Research
- Use of valid, reliable, and reputable career interest/strength/values assessments, supported by qualified career advising
- Exposure to career pathways

About Postsecondary Education

- College awareness and building expectations about future college attendance

Family Engagement

- Parent/guardian career workshops and review of career pathway maps, with focus on engaging parents/guardians meaningfully through their own experiences and completion of career assessments as appropriate
- Labor market information provided to parents and guardians to help guide and support students in the exploration of their career pathway interests

Career Exploration

Learning ABOUT work and exploring, research and planning for career

Explore career and post-secondary options for the purpose of motivating students and to inform their decision making in secondary school through postsecondary education.

Classroom and School

About Careers

- Career plan development
- Financial literacy
- Resume, interview, application support
- College and career portfolio that carries forward from year to year

About Postsecondary Education

- Researching post-secondary education appropriate for chosen pathway
- Building "college knowledge"
- Complete college entrance exams

Family Engagement

- Parent/guardian review of career pathway maps to facilitate children's pathway selection; guidance on how to coach their children
- Labor market information provided to parents and guardians to help guide and support students in the exploration of their career pathway interests

Career Preparation: Practicum & Internships

Learning THROUGH work

Apply learning through practical experience that develops knowledge and skills necessary for success in careers and postsecondary education.

Classroom and School

About Careers

- Career plan refinement
- Financial planning
- Job seeking skills training

About Postsecondary Education

- College exploration
- Introduction to career and academic education planning
- Building "college knowledge"
- Support for informed and purposeful college decision-making
- Complete college entrance exams

Family Engagement

- Engagement of parents/guardians in decisions about career pathway selection (if not selected)
- Participation of parents/guardians in pathway activities
- Guidance to parents and guardians on how to coach their children in preparation for postsecondary transition

Career Training

Learning FOR work

Train for employment and/or postsecondary education in a specific range of occupations

Classroom and School

About Careers

- Planning for future career transitions

About Postsecondary Education

- Planning for further education
- Planning for future occupational certifications

Self Awareness

Learning about ONESELF

Build awareness of strengths, interests and values and connect this information to future purpose and career through reflection and related metacognitive activities.

Experiences might include:

- Industry tours
- Guest speakers
- Adult role models
- Role model observation
- Progression of responsibility
- Service activities

Career Awareness

Learning ABOUT a wide variety of careers

Build awareness of the variety of careers available and the preparation required to obtain and succeed in a career; broaden student options.

Experiences might include:

- Guest speakers
- Industry tours
- Career Fairs
- Visit parents at work
- Online tools

Career Exploration

Learning ABOUT work and exploring, research and planning for career

Explore career and post-secondary options for the purpose of motivating students and to inform their decision making in secondary school and postsecondary education.

Experiences might include:

- Informational interview
- Job shadow
- Virtual exchange with a partner
- Professional mentor
- Civic engagement/community service

Career Preparation: Practicum & Internships

Learning THROUGH work

Apply learning through practical experience that develops knowledge and skills necessary for success in careers and postsecondary education.

Experiences might include:

- Integrated project with multiple interactions with professionals
- Student-run enterprise with partner involvement
- Virtual enterprise or other extended online interactions with partners
- Projects with partners through industry focused student organization
- Service learning and social enterprises with partners
- Internship connected to curriculum

Career Training

Learning FOR work

Train for employment and/or postsecondary education in a specific range of occupations.

Experiences might include:

- Internship
- Internship required for credential or entry to occupation
- Apprenticeship
- Clinical experience
- On-the-job training
- Work experience

Self Awareness

Learning about ONESELF

Build awareness of strengths, interests and values and connect this information to future purpose and career through reflection and related metacognitive activities.

Experiences may include:

- Experiencing self as "belonging" among those who attend college, by seeing and speaking with peer role models in college
- Guest speakers from postsecondary
- Links to community-based organizations and clubs that expose students to postsecondary opportunities in areas of interest

Career Awareness

Learning ABOUT a wide variety of careers

Build awareness of the variety of careers available and the preparation required to obtain a career; broaden student options.

Experiences may include:

- Guest speakers from postsecondary

Career Exploration

Learning ABOUT work and exploring, research and planning for career

Explore career and post-secondary options for the purpose of motivating students and to inform their decision making in secondary school through postsecondary education

Experiences may include:

- Guest speakers from postsecondary
- Interviews with college students
- College tours

Career Preparation: Practicum & Internships

Learning THROUGH work

Apply learning through practical experience that develops knowledge and skills necessary for success in careers and postsecondary education

Experiences may include:

- Guest speakers from postsecondary
- Interviews with college students
- College tours
- College fairs, including interviews with college admissions officers
- Support for application, financial aid, and scholarship process
- Dual and concurrent enrollment
- CE coursework leading to certificates and associate degrees
- Preparation for transition to postsecondary

Career Training

Learning FOR work

Train for employment and/or postsecondary education in a specific range of occupations

Experiences may include:

- Core academic preparation
- Support for application, financial aid, and scholarship process
- Dual and concurrent enrollment
- CE coursework leading to certificates and associate degrees
- Preparation for transition to postsecondary

Workforce Tenets and Priorities

San Diego Imperial County Community College Association, Imperial Workforce Development Board, San Diego Workforce Partnership

From the 2017 Southern Border Regional Workforce Development Plan

1. ***The Regional Workforce Development System is more than the programs we fund:*** Each of the stakeholders manage individual programs, infrastructure, and investments. Our vision is to connect these programs to create a more unified, integrated workforce development system. Programs change lives, but systems have the power to transform communities.
2. ***Shared Labor Market Data:*** The Southern Border workforce stakeholders will collaborate on sector research and reports, creating a common vision/agreement on which sectors/occupations to invest in, reduce duplication, and to align the direction of our collective investments.
3. ***Creating Opportunity for ALL residents of San Diego and Imperial Counties through better-defined career pathways:*** Our dual mission of regional prosperity and income mobility for the hardest to serve do not have to be mutually exclusive. Our job is not finished with just job placement. We must go further by creating and supporting career pathways to careers that offer family sustaining wage and room for professional growth for ALL communities.
4. ***Human-centered approach to service design:*** We must organize services around customer needs, not programmatic requirements. Whether it is employers, adult jobseekers, or youth, our focus should not be on programs, it should be on people.
5. ***Single entry point for business customers:*** Today, the public workforce system engages employers by program, with different people from different organizations calling employers to hire their participants. We change this by taking a “demand driven” approach to business services. San Diego’s public workforce system must engage businesses by sector under a common strategy with a coordinated sales force.
6. ***Increase service access points:*** Through co-location, service integration with system partners, and the development of meaningful remote access points, we must create more on-ramps into the public talent development system. Through co-location with partners, development of affiliate sites, better on-line and mobile friendly service offerings, and other strategies, we must increase the accessibility or program services.
7. ***Common definition of work-readiness:*** Businesses want a way to measure and understand job-readiness and essential skills in addition to the technical skills. We must all agree on a common, nationally-recognized career readiness certificate (such as the ACT National Career Readiness Certificate) for all jobseekers and students coming out of our programs, schools, and job centers.

8. **Less money spent on bricks and mortar, more invested in people:** Through shared and leveraged infrastructure, integrated staffing models, and expanded use of technology, system-stakeholders must reduce money spent on bricks and mortar and invest more in people.
9. **Efficiency and measurable continuous improvement:** Ineffective tactics will hinder well-thought out strategies. We must continuously improve the system's processes, policies, and professionalism while maintaining our commitment to transparency to achieve the vision and intent of WIOA.

Top Priorities. In November 2016 a regional meeting of community colleges, partners and stakeholders was held. The participants agreed that three of these regional workforce development priorities should be addressed first. These priorities and action items to execute on the priorities include:

- Strategic Priority: Coordinating industry engagement and developing a single entry point for business customers
 - ✓ Action Item: Develop an e-portal for work-based learning opportunities for youth and young adults, with the capability of coordinating employer contacts and involvement in the region
- Strategic Priority: Creating opportunity for all San Diego and Imperial County residents through Career Pathway Development
 - ✓ Action Item: Partners annually agree on the major regional shared sector research reports for each fiscal year, obtain agency approvals, fund the research and resulting dissemination reports and conferences
 - ✓ Action Item: Focus on one sector and from a regional perspective, describe the career pathway/career ladder for K through adult participants, involving all partners including industry and resulting in a clear understanding of access and upward mobility
 - ✓ Action Item: Hold a meeting with partners in the first quarter of 2017 to solidify plans for work readiness initiatives across partner organizations.
- Strategic Priority: Supporting human-centered approach to service design.
 - ✓ Action Item: Provide human-centered design training for all partnering agencies in 2017-18

Strong Workforce Taskforce Recommendations

STUDENT SUCCESS

1. Broaden and enhance career exploration and planning, work-based learning opportunities, and other supports for students.
2. Improve CTE student progress and outcomes.

CAREER PATHWAY

3. Develop and broadly publicize industry-informed career pathways that prepare students for jobs needed within the regional labor market.

WORKFORCE DATA & OUTCOMES

4. Create common workforce metrics for all state-funded CTE programs and expand the definition of student success to better reflect the wide array of CTE outcomes of community college students.
5. Establish a student identifier for high school students and those enrolled in postsecondary education and training programs to enable California to track workforce progress and outcomes for students across institutions and programs.
6. Improve the quality, accessibility, and utility of student outcome and labor market data to support students, educators, colleges, regions, employers, local workforce investment boards, and the state in CTE program development and improvement efforts.

CURRICULUM

7. Evaluate, strengthen, and revise the curriculum development process to ensure alignment from education to employment.
8. Evaluate, revise and resource the local, regional, and statewide CTE curriculum approval process to ensure timely, responsive, and streamlined curriculum approval.
9. Improve program review, evaluation, and revision processes to ensure program relevance to students, business, and industry as reflected in labor market data.
10. Facilitate curricular portability across institutions.
11. Develop, identify and disseminate effective CTE practices.
12. Clarify practices and address issues of course repetition for CTE courses when course content evolves to meet changes in skill requirements.

CTE FACULTY

13. Increase the pool of qualified CTE instructors by addressing CTE faculty recruitment and hiring practices.
14. Consider options for meeting minimum qualifications to better integrate industry professionals who possess significant experience into CTE instructional programs.
15. Enhance professional development opportunities for CTE faculty to maintain industry and program relevance.
16. Explore solutions to attract industry professionals in high-salaried occupations to become CTE faculty in community colleges.

REGIONAL COORDINATION

17. Strengthen communication, coordination, and decision-making between regional CTE efforts and the colleges to meet regional labor market needs.
18. Clarify and modify, as appropriate, state regulations to allow colleges to regionalize course articulation along career pathways utilizing regional or state curriculum models.
19. Develop regional leadership and operational partnerships among community college, industry, labor, and other workforce and economic development entities to improve the delivery of all CTE efforts.
20. Develop robust connections between community colleges, business and industry representatives, labor and other regional workforce development partners to align college programs with regional and industry needs and provide support for CTE programs.
21. Create a sustained, public outreach campaign to industry, high school students, counselors, parents, faculty, staff, and the community at large to promote career development and attainment and the value of career technical education.
22. Establish a sustained funding source to increase community colleges' capacity to create, adapt, and maintain quality CTE courses and programs that are responsive to regional labor market needs.
23. Create a predictable, targeted, and sustained funding stream that leverages multiple local, state, and federal CTE and workforce funds to support an infrastructure for collaboration at the state, regional and local levels; establish regional funding of program start-up and innovation; and develop other coordination activities.
24. Review, analyze, and modify, as needed, laws and regulations related to student fees for disposable and consumable materials and CTE facilities.
25. Create incentives and streamline processes to maximize public and private investment in support of CTE programs.