

Top In-Demand Middle-skill Occupations | San Diego County

by annual projected job openings, 2015-2020

HS Diploma + Training/Apprenticeship

- Customer Service Representatives (841 annual openings)
- General Maintenance & Repair Workers (507)
- Sales Representatives (381)
- Medical Secretaries (304)

Certificate or Some College

- Nursing Assistants (578)
- Medical Assistants (446)
- Licensed Vocational Nurses (338)
- Computer User Support Specialists (197)

Associate Degree

- Medical Lab Technicians (145)
- Electrical and Electronics Engineering Technicians (75)
- Web Developers (72)
- Computer Network Support Specialists (64)

Bachelor's Degree *(w/high % of current AA/AS holders)*

- Registered Nurses (1,101)
- Software Developers, Applications (346)
- Management Analysts (286)
- Computer Systems Analysts (240)

Demand/Supply for Middle-skill Occupations | San Diego County

Major Occupational Group	Annual Demand	Annual Supply			Areas of Undersupply?
	Job Openings	CC Credit Awards (degrees & cert.)	CC Noncredit Awards	Other Postsecondary Institutions Awards	
Office and Administrative Support	3,772	653	935	99	Yes
Healthcare Practitioners and Technical	2,500	937	10	1,419	Yes
Sales and Related	1,752	114	0	4	Yes
Installation, Maintenance, and Repair	1,700	595	649	121	Yes
Construction and Extraction	1,152	256	161	62	Yes
Production	930	361	177	193	Yes
Transportation and Material Moving	630	35	0	0	Yes
Life, Physical, and Social Science	180	126	0	0	Yes
Community and Social Services	177	173	0	23	Yes
Legal	167	79	0	5	Yes
Healthcare Support	2,136	266	366	2,297	Maybe
Personal Care and Service	1,470	616	139	1,866	Maybe
Computer and Mathematical	598	297	178	343	Maybe
Education, Training, and Library	580	445	124	746	Maybe
Business and Financial Operations	1,138	1,488	243	1,040	No
Management	671	1,387	154	1,100	No
Food Preparation and Serving Related	661	192	532	290	No
Protective Service	468	677	0	178	No
Arts, Design, Entertainment, Sports, and Media	426	372	279	280	No
Architecture and Engineering	341	400	77	154	No
Building and Grounds Cleaning and Maintenance	57	55	0	93	No

Sector Training Shortages (demand exceeding supply of trained workers):

- Drafting and engineering technician occupations
- CNC machinists, tool programmers and operators
- Certified nurse assistants, health care social workers and certified laboratory scientists
- Entry-level biotechnology occupations (laboratory assistants and manufacturing technicians)
- Computer support and networking support occupations

Top In-demand Middle-skill Occupations | Imperial County

by annual projected job openings, 2015-2020

HS Diploma + Training/Apprenticeship

- Electricians (135 annual openings)
- Social and Human Service Assistants (33)
- Maintenance and Repair Workers (29)
- Customer Service Representatives (22)

Certificate or Some College

- Medical Assistants (24)
- Nursing Assistants (24)
- Licensed Vocational Nurses (15)
- Automotive Service Technicians (8)

Associate Degree

- Preschool Teachers (7)
- Paralegals and Legal Assistants (3)
- Electrical and Electronics Engineering Technicians (<1)
- Computer Network Support Specialists (<1)

Bachelor's Degree (w/high % of current AA/AS holders)

- Registered Nurses (43)
- Compliance Officers (16)
- Construction Managers (7)
- Management Analysts (6)

Demand/Supply for Middle-skill Occupations | Imperial County

Major Occupational Group	Annual Demand	Annual Supply		Areas of Undersupply?
	Job Openings	CC Credit Awards (degrees & cert.)	Other Postsecondary Institutions Awards	
Construction and Extraction	183	11	86	Yes
Office and Administrative Support	167	34	47	Yes
Installation, Maintenance, and Repair	124	33	66	Yes
Sales and Related	102	4	73	Yes
Healthcare Support	93	32	0	Yes
Personal Care and Service	70	39	0	Yes
Transportation and Material Moving	61	0	0	Yes
Education, Training, and Library	56	38	0	Yes
Food Preparation and Serving Related	21	0	0	Yes
Community and Social Services	23	13	0	Maybe
Protective Service	125	177	0	No
Healthcare Practitioners and Technical	72	99	0	No
Management	65	72	58	No
Business and Financial Operations	30	81	47	No
Production	19	40	66	No
Computer and Mathematical	7	18	0	No

Sector Training Shortages (demand exceeding supply of trained workers):

- Helpers- Production Workers
- Machinery maintenance and repair workers
- Engineering technicians
- Software engineers, programmers, and developers
- Certified nursing assistants, medical laboratory technicians and clinical laboratory scientists

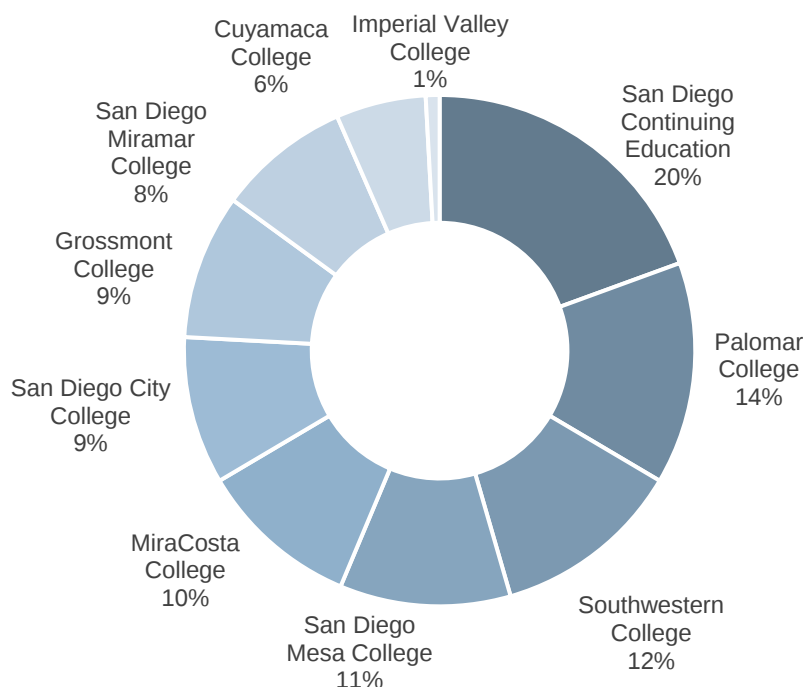
Career & Technical Education Student Employment Outcomes

San Diego & Imperial Counties Community Colleges

4,708 CTE students from the 10 community colleges in San Diego and Imperial counties were surveyed in Spring 2016 by the Office of Institutional Research and Planning at Santa Rosa Junior College. The survey purpose was to determine:

- If students become employed in their field of study;
- If coursework positively affects earning potential; and
- Why students drop out of CTE programs

Respondent College Attended



Age

30% 18-24

40% 25-39

30% 40+

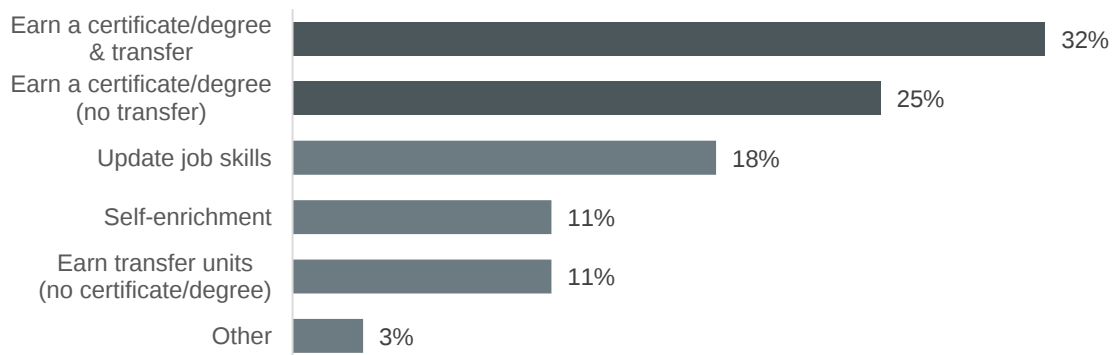
3.0+ Average GPA

80% Employed

31% Transferred after completing coursework

Overall, 57% of the surveyed students cited either earning a degree/certificate ("completers") as the primary reason for attending college.

Top Reason for Studies

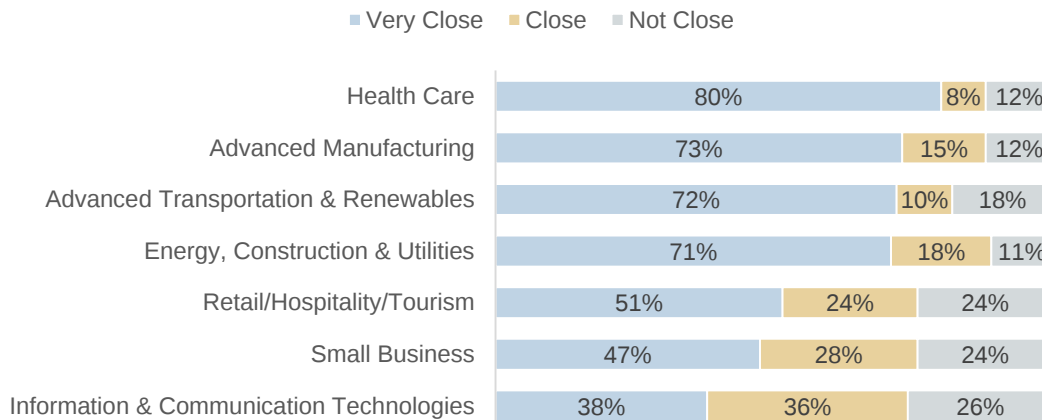


Top majors include: Business Administration/Management, Small Business Management, Economics, Accounting, Administration of Justice/Criminal Justice, Child Development/Early Childhood Development, Computer Science/IT/Network Administration, Nursing, General Education, and Automotive Technology

Completers = Students who earned a certificate and/or degree

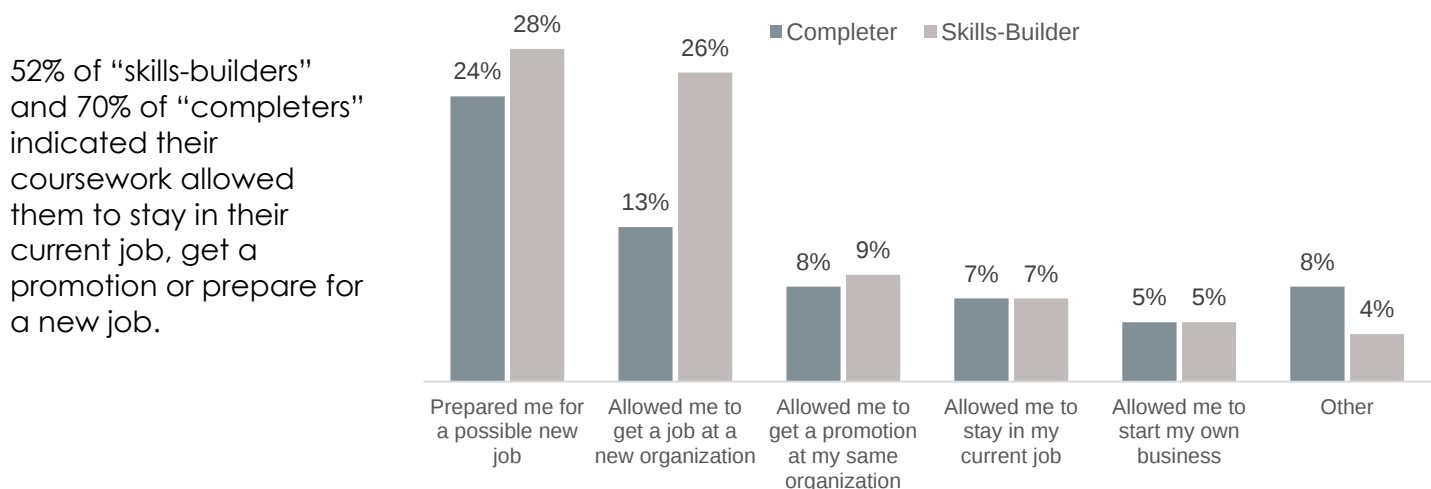
Skills-builders = Students who received 9+ CTE credits but no degree/certificate

How closely related is your field of study to your job? (by sector)



Most “completers” (70%+) in Health, Energy Construction & Utilities, Advanced Transportation & Renewables, and Advanced Manufacturing indicated that their current job is very closely related to what they studied.

What impact did your coursework have on your employment?



52% of “skills-builders” and 70% of “completers” indicated their coursework allowed them to stay in their current job, get a promotion or prepare for a new job.

91% of “skills-builders” and **95%** of “completers” responded that they were satisfied or very satisfied with their education and training.

Hourly Wages

<u>Before</u>	<u>After</u>
\$17.85	\$23.61

Conclusions

- Most CTE students did not access career services – especially skill-builders
- Many completers indicated that their employment is closely related to their field of study, especially in industries that have a higher number of internships and apprenticeships
- There is strong evidence that CTE students are more employable after completing coursework
- Students perceive their coursework as helping them to get or maintain a job, or get a promotion – the perceived and actual value of a college education is clear
- Students were overwhelmingly satisfied with the quality of the programs and instruction they received and believed that the colleges offer an environment in which to succeed

Completers = Students who earned a certificate and/or degree

Skills-builders = Students who received 9+ CTE credits but no degree/certificate