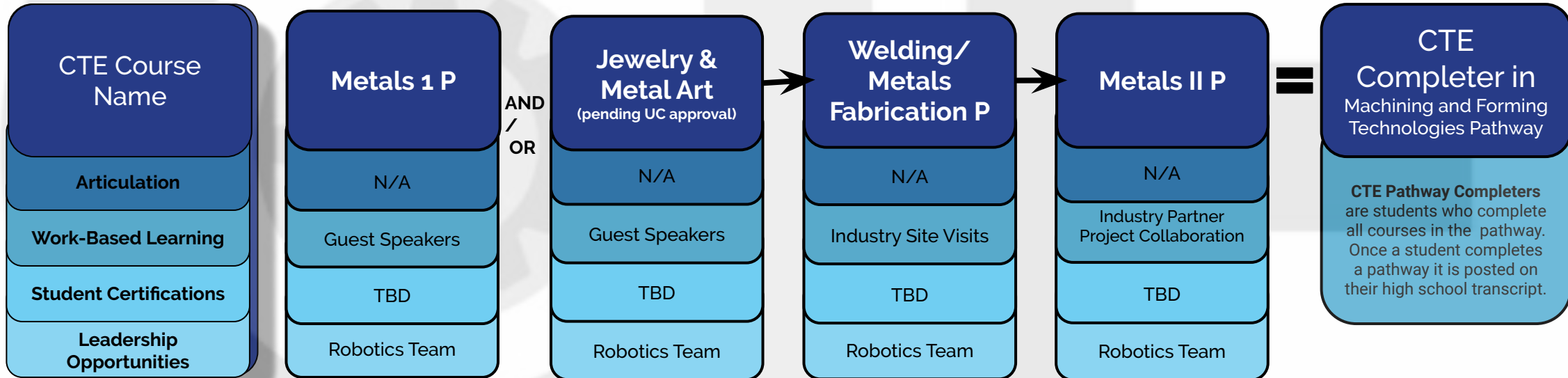


The Machine and Forming Technologies pathway provides students with an understanding of manufacturing processes and systems common to careers in machine tool and materials forming industries. Representative topics include trade vocabulary; shop math; basic material identification; proper use of hand and machine tools; reading precision measuring tools within .001" and the interpretation of machined and formed-part prints; the cutting, shaping, fastening, and finishing of machined parts; fixtures; forging, molding (casting), cold forming, and shearing processes.



Related Complementary Courses: ▶ Wood Technology ▶ Wood Technology 2 ▶ Architectural Design

P = UC/CSU Approved Course

Articulation = College Credit Opportunity

Post High School Options (San Diego County):

Pathway	Certificate Programs	2 Year (A.A.) Degree	4 Year (B.A./ B.S Degree)
Machining and Forming Technology	Mira Costa College TCI: Welding Program	Palomar College: Welding Technology (A.S.)	San Diego State University: College of Engineering
	Palomar College: Welding Technology		UCSD: Jacobs School of Engineering
	Palomar College: Industrial Technology	Palomar College: Engineering (A.S.)	Point Loma Nazarene Univ.: Dept of Physics & Engineering
			University of San Diego: School of Engineering

Key Adv. Machining and Forming Technology Occupations in SD County 2016*

Occupations	Typical Entry- Level Education	2016 Jobs in Industry	Median Hourly Earnings
Assemblers and Fabricators	H.S. Diploma or equivalent	10,168	\$12.54
Software Developers	B.A./ B.S. Degree	8,628	\$52.22
Electrical or Civil Engineers	B.A./ B.S. Degree	6,292	\$49.03
Metal or Plastic Workers	H.S. Diploma or equivalent	5,996	\$26.48
General and Operations Managers	B.A./ B.S. Degree	3,732	\$50.27
Inspectors, Testers, Sorters, Samplers, and Weighers	H.S. Diploma or equivalent	3,399	\$19.56
Food Processing Workers	No formal educational credentials	1,946	\$10.72
Laborers and Freight, Stock, and Materials Movers	No formal educational credentials	1,657	\$11.65

*Source: San Diego Workforce Partnership 11/17

Skills that Employers say are VERY IMPORTANT

Mechanical Skills ■ Monitoring ■ Time Management ■ Critical Thinking ■ Active Listening ■ Communication