



CAREER & TECHNICAL DUCATION Preparing you to succeed in a changing world!







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DEAN'S MESSAGE

Choosing the right career is one of the most important decisions you will ever make. This is followed closely by; choosing the right college to launch your first, second or even your sixth career! Experts say that most of us will change careers about five or six times in our lifetime, so to successfully transition into a new career, you need to get the best education possible to be competitive.

Los Medanos College has an outstanding selection of career and technical education choices ranging from technical programs such as Appliance Service Technology, Automotive Technology, Electrical and Instrumentation Technology, Engineering, Process Technology, and Welding Technology; to business-oriented programs such as Accounting, Entrepreneurship, Office Administration, Small Business Operations, Retail Management, and Travel Marketing; to health and public safety programs such as Administration of Justice, , Emergency Medical Services, Environmental Science, Fire Technology, and Nursing; to computer and technology-oriented programs such as Computer Science, Graphic Communications, Recording Arts, and Journalism; to human development programs such as Child Development. Many of these careers are in middle-skill and high-skill professions and many require science, technology, engineering and/or math (STEM) education.

We recognize what an important role LMC can play in your career and life, so we pride ourselves on offering a comprehensive selection of programs that lead to exciting careers and continued job advancement. For Bay Area businesses and industry to remain globally competitive and profitable, it is essential to develop and promote a 'high performance' workforce – requiring employees with up-to-date professional and technical skills, and polished 'soft skills'. We partner with local businesses and industries, the workforce development board, city governments, and chambers of commerce to constantly update our curriculum to ensure that students graduate with the knowledge and skills necessary to compete and thrive in today's and tomorrow's workplace.

An important component of career and technical education is helping students master employment skills using the latest equipment in our state-of-the art labs and classrooms. Our faculty and staff bring a multitude of experiences from their respective industries to make classroom instruction exciting and relevant. We are committed to helping our students succeed by providing support services such as career exploration and guidance, academic counseling, mentoring, internships, and job placement services.

At Los Medanos College, every student is valued and nurtured, and every success is celebrated. Let us help you launch your career!

Kiran Kamath Dean, Career and Technical Education





FACTS

Year established: 1974

Type of school: public

Programs: 2-year undergraduate

Campus enrollment: 12,000 students

Los Medanos College (LMC) was established in the spring of 1974 as one of the three colleges of Contra Costa County. Along with Diablo Valley College, Contra Costa College and the centers at Brentwood and San Ramon Valley, the colleges serve about 40,000 students. Together they compose the Contra Costa Community College District, the 8th largest college district in California.

LMC is located on a beautiful 120-acre site between Pittsburg and Antioch. To serve the growing demand and population in eastern Contra Costa County, the college has expanded its facilities by adding three new buildings — a library, and math and science buildings. It is also upgrading and remodeling the original building. Our Brentwood Center has also expanded and continues to serve the growing community in East Contra Costa County.

Accredited by the Commission for Community and Junior Colleges of the Western Association of Schools and Colleges, LMC offers an array of excellent career and technical education (CTE) programs leading to a variety of career certificates and associate degrees. The college's general education curriculum leads to an Associate of Arts degree in Liberal Arts or "University Studies" (for students who meet transfer requirements). Our students transfer to universities that are part of the California State University system, the University of California system and to other private four-year colleges and universities. Many of our career and technical education students join the workforce soon after graduating. A large percentage of our students are working adults, so we offer a variety of short-term courses that enhance job skills to help students master new technologies. The college offers day, evening, weekend and online courses to meet the needs of our busy students.

Los Medanos College is a superb choice if you are looking for an excellent education, an outstanding variety of career programs and courses, and a college where student success comes first!



ADMINISTRATION OF JUSTICE

The demand for law enforcement, investigators and security personnel has increased sharply in the last few years.

For students considering a career as a police officer, sheriff, investigator, emergency dispatcher, or probation officer, our Administration of Justice Program offers a good foundation. Our instructors, many of whom are current or retired law enforcement officers, bring real world experience into the classroom as they instruct students in criminal investigation, criminal law, corrections, and the American justice system.

Our program offers an Associate of Science Degree in Administration of Justice to prepare students for a career in law enforcement, criminal justice and parole. Many students opt to transfer to a four-year college or university or enroll in a law enforcement academy after completing the required courses at our college.

Starting salaries range from \$40,000 for a parking enforcement officer to \$62,000 for a police officer, with additional compensation paid for overtime.



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For more information on the program, visit our website at: www.losmedanos.edu/AJ

Does technology interest you? Do you like to tinker with machines? Do you find satisfaction in helping people? These talents can lead you into a career as an appliance service technician. "

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For more information on the program visit our website at: www.losmedanos.edu/appliance

APPLIANCE SERVICE TECHNOLOGY

The Appliance Service Technology program at Los Medanos College is the only one of its kind in a California community college.

Companies such as Whirlpool, Bosch, Sears, and Sub Zero partner with our program, donating the latest appliances for hands-on learning, providing students with factory training and recruiting students for careers immediately after graduation.

Appliance service technicians inspect, troubleshoot and repair major appliances including refrigerators, ranges, dishwashers, microwave ovens, washers and dryers. These positions pay well and offer good benefits, in addition to offering independence and the flexibility to work almost anywhere in the country. More than 20% of appliance technicians are self-employed. The average annual starting salary for appliance technicians ranges between \$35,000 and \$55,000.

A certificate of achievement can be earned in four semesters by taking classes during the day or the evening. Students can even complete an accelerated program in just 11 months. The program also offers a Certificate of Achievement in Electrical Appliances and in Refrigeration.

"If you are looking for a high paying technical career with nationwide placement, then you should contact the Appliance Service Technology program at LMC."—Len Price, Professor, Appliance Technology Program



AUTOMOTIVE TECHNOLOGY



Automotive Service has evolved from just mechanical repair into a 'high tech' career with integrated electronic systems and computerized diagnosis.

In our Automotive Technology program, students learn about hybrid technology and electric cars, emission control, smog checks, brakes, suspension systems, air conditioning, and transmissions. Prepare for a career as an auto or front-end mechanic; service, brake repair, transmission or tune-up technician.

Our 7,000 square foot auto lab includes workstations with five lifts, power-train lab, machine shop, engine lab, alignment stations, dynamometer, a tool room, and a specialized classroom. Customer cars are diagnosed and repaired in the auto lab by students under the close supervision of our faculty.

Students can graduate with either a Certificate of Achievement or an Associate of Science Degree in Automotive Technology. Our courses prepare students to take all nine Automotive Service Excellence (ASE) Certification exams. Courses are offered during the day, evening and weekend.

The employment opportunities for auto technicians are excellent with starting salaries ranging between \$25,000 and \$40,000 annually.



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For more information on the program visit our website at: www.losmedanos.edu/auto.



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For more information on the program, visit our website at: www.losmedanos.edu/business.

BUSINESS

Our Business programs prepare you well for the business world with practical courses in accounting, small business operations, office administration, and retail management.

Excellent business skills are essential for success in any career. Whether you are interested in learning how to use computer software or wish to graduate in accounting or management, our courses, certificates and degrees will enhance your career opportunities.

We prepare you for a wide range of career choices in a variety of businesses and industries. With 'baby boomers' aging, there is a growing demand for health care services. You can learn the skills needed to become a Medical records Clerk, a Medical Biller, a Medical Coder or a Medical Transcriptionist. Small businesses form the 'back bone' of the country. Learn about entrepreneurship and small business operations and graduate with a certificate or a degree. You may prefer a career in larger organizations in specialized fields such as accounting, finance, human resources, marketing among others. Complete a two-year associate of science degree with us and then transfer to a four-year college or university to continue your education. Business is one of the most popular degrees as it prepares you well for a variety of career choices.

Join us to prepare for a career, enhance your existing career, or to change your career.

CHILD DEVELOPMENT

Our Child Development program prepares students for careers with children and families such as a preschool or elementary school teacher, daycare provider, park and recreation director, or preschool owner.

Whether you chose to follow the "Permit Matrix" to qualify for a career in child development or pursue a public school teaching credential, our child development program offers an excellent foundation. Many high school students and Regional Occupational Program (ROP) students transfer into our program and receive college credit for "articulated" courses completed in high school.

We also offer courses for students working in the field of child development who want to advance in the field or update their skills. Our program prepares you for a variety of specializations such as infant/toddler care, special needs education, administration, and school age child care and education.

We have an excellent accredited Child Study Center on the campus that provides childcare for our students while also serving as a model teaching and demonstration "lab" for our child development majors.

Many programs such as First Five and the Mentor Teacher Project offer personal and professional advancement coupled with financial incentives and support for qualified applicants. Job placement support is also available to help match qualified applicants with current job openings. Starting salaries for careers in child development range between \$35,000 and \$60,000.

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For more information on the program, visit our website at: www.losmedanos.edu/childdev.







A career in the IT industry provides you with global employment opportunities, excellent salaries and benefits, telecommuting opportunities and flexible hours.



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For more information on the program, visit our website at: www.losmedanos.edu/computerscience.



Careers in IT are exciting, global, and at the forefront of change!

Many of the fastest growing careers are either directly in the computer industry or in related industries that rely on computers. Careers directly in the computer industry include Network and Data Communications Specialists, Computer Support Specialists, Computer Information Systems Administrators, Computer Software Engineers, Web Developers, and Security Specialists. Since almost everything today relies on computers, there are IT-related careers in the automotive industry, the appliance industry, manufacturing, healthcare, travel industry, education and the government. IT professionals with excellent computer skills and entrepreneurial abilities can also launch their own businesses.

Our up-to-date program prepares you for a variety of career choices as well as for transfer to a four-year college or university. You can graduate with a degree or a certificate in Computer Support; Networking and Security; and Microcomputer Systems. You can also graduate with an Associate of Science Degree in Computer Science and even transfer to a four-year college or university to pursue your education to become a computer engineer or programmer. You can learn essential skills in a short period of time to get you prepared for entry level jobs in areas such as A+ Certification and Game Design too.

With an associate degree, annual salaries can range from \$50,000 for computer support specialists to \$75,000 for Network and Data Communications Analysts to \$120,000 for Computer Information Systems Administrators. To succeed in an IT career, you should have good analytical skills, troubleshooting, critical thinking, reading and writing, math, communication and customer service skills.

Our Computer Science program, with its variety of certificate and degree options, is an excellent place to begin your career in this growing high-tech field.



ELECTRICAL/ INSTRUMENTATION TECHNOLOGY

Electrical and instrumentation technicians are in high demand by manufacturing plants and 'green' energy employers in our region.

Electrical and Instrumentation Technicians are in high demand by manufacturing plants and 'green' energy employers in our region.

Industries such as USS-POSCO; chemical plants such as The Dow Chemical Company; refineries such as Shell, Tesoro, Chevron, ConocoPhillips; power generation companies and utilities such as PG&E, GenOn Energy, and GWF Energy; and water districts and water sanitation plants all employ Electrical Technicians and industrial Instrumentation Technicians.

Electrical and Instrumentation Technicians (ETECs) work closely with engineers to maintain the smooth operation of manufacturing plants and energy generation plants. Students who enjoy working with their hands and have an aptitude for math, physics and chemistry, will find that this is an excellent and well-paying career choice.

Our program offers career training for both specializations – Electrical Technology and Instrumentation Technology. The first provides instruction in the principles and practices of electrical technology, preparing students for entry-level electrical maintenance positions. The second option focuses on instrumentation technology and prepares students for entry-level positions in the maintenance and repair of process control instrumentation. Electrical Technicians use their knowledge of electrical theory to design and modify circuits, troubleshoot, diagnose, and perform the necessary repairs. If you are working as an electrician, but have not yet taken the state certification exam, take our courses to help you prepare for the test and continue working in the meantime.

Our industry partners are located close to the college and recruit graduates actively from the program. Annual starting salaries range between \$70,000 and \$90,000, and are higher with overtime.

LMC's ETEC program is an official 'Education Training Provider' approved by the Division of Apprenticeship Services (DAS) for electricians. The program is also an educational partner with PG&E for "green" jobs in the energy sector.

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For more information on the program, visit our website at: www.losmedanos.edu/etec





EMERGENCY MEDICAL SERVICES

The Emergency Medical Technician (EMT) certificate is the first step to careers in firefighting, law enforcement, nursing and paramedics.

EMTs are skilled medical workers who respond by ambulance to medical emergencies. EMTs determine the nature and extent of the victim's injury or illness, and administer first aid and emergency life support. In a one semester course, students receive training to become an EMT Level I. The curriculum includes lots of hands-on lab practice where students learn how to respond efficiently and calmly in real medical emergencies. The course is taught by professionals in the field who draw from their own experiences.

The course prepares students to take the State of California Department of Health Standards Certification Test for Emergency Medical Technician I. Graduates and working EMTs return every two years to take an EMT recertification course.

Most EMTs work for private ambulance companies, or city and county emergency service agencies. The job outlook for EMTs is excellent with starting salaries ranging between \$28,000 and \$32,000 per year.

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For more information on the program, visit our website at: **www.losmedanos.edu/ems**.

ENGINEERING

Do you like to invent things? Are you creative? Do you want to develop exciting new technologies, including nanotechnology, robotics, biomedical technology, or tackle the problems posed by expanding populations, global warming, and limited energy supplies? If so, consider a career in engineering.

Los Medanos College offers a full range of engineering courses in our new state-of-the-art facility equipped with an excellent engineering lab. Our curriculum leads to an Associate of Science degree in Engineering, after which you can transfer to a four-year college or university to pursue a bachelor's degree in engineering. Recent LMC engineering students have transferred to UC Davis, UC Berkeley, CSU East Bay, Cal Poly San Luis Obispo, San Francisco State University, and San Jose State University.

Pursue careers in civil/structural, mechanical, electrical/electronic, aerospace, environmental, industrial/manufacturing, materials, chemical, nuclear, and biomedical engineering, with starting salaries ranging between \$50,000 and \$70,000.

Careers in "STEM" fields such as engineering are in high demand.

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For more information on the program, visit our website at: www.losmedanos.edu/engineering.



ENVIRONMENTAL SCIENCE



Environmental Science bridges the gap between a healthy economy and a better environment.

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For more information on the program, visit our website at: www.losmedanos.edu/envsc.

Environmental science studies the physical, chemical and biological components of the environment; with a focus on pollution and degradation of the environment related to human activities; and the impact on biodiversity and sustainability.

It is an interdisciplinary field where knowledge from non-scientific subjects such as economics, law, and social science is also applied.

Los Medanos College is ideally located in the delta at the confluence of two of California's major rivers. Our environmental science program is supported by our regional industry partners. The Dow Chemical Company has 500 acres of wetlands available for our research and restoration activities.

Our environmental science program offers an associate degree which can be completed in four semesters. Courses in biological science, chemistry, environmental science, geology, geography, math, and physics provide excellent lower division preparation for students transferring to related programs at four-year colleges and universities. Our program offers wonderful opportunities for field trips, internships and employment.



FIRE TECHNOLOGY

We offer the standard fire technology curriculum approved by the Office of the State Fire Marshall and the State Board of Fire Services.

The demand for fire fighters, fire prevention specialists, forest fire inspectors and investigators is high and our Fire Technology Certificate provides practical and technical instruction to meet the requirements of various fire service agencies at the local, state, and federal levels. This is accomplished by training in fire prevention, public education, fire suppression, arson investigation, emergency medical services, heavy rescue, and hazardous materials management.

Students who complete the required courses in Fire Technology and who are certified as an EMT are eligible to join the LMC Fire Academy to train as a fire fighter. Our program also prepares students to transfer to a four-year college to pursue a career as a fire investigator and other positions at the county, state or federal level.

The annual salary for a forest fire inspector ranges around \$47,000 and for a fire inspector and investigator, the salary range is around \$69,000.

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For more information on the program visit our website at: **www.losmedanos.edu/fire**





GRAPHIC COMMUNICATIONS

ONTANA .

Look around. How many logos can you see right now? Book covers, shirts, posters, packaging and websites-all created by artists who were paid for their talents.

We offer graphic arts foundation classes that students need to move beyond making eye candy. Projects are completed using state-of-the-art software and hardware in our spacious computer lab. Students discover how to research and conceptualize ideas that are uniquely their own while also communicating their clients' needs.

Our instructors have worked in the industry and have a passion for graphic design and communication. The combination of real-world experience and strong theory they bring to class makes for an exciting learning experience.

The Graphic Communications area of our Art department offers exciting classes in:

- Photoshop
- Illustrator
- Graphic Design
- 3-D Animation
- Photography
- Adobe InDesign
- Advertising, Marketing and Publication Design
- 2-D Design
- Digital Prepress

Each of these classes is a step towards earning an associate of arts in Art with a Graphic Communications emphasis, or a Certificate of Achievement in Digital Publishing or Graphic Communications.

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For more information on the program visit our website at: **www.losmedanos.edu/art/graphic.**



JOURNALISM

An associate degree in journalism and mass communication prepares students for jobs as reporters, researchers, writers, photographers, editors and designers in the major mass media, and in industries such as advertising and public relations.

Journalism is also the second most popular undergraduate major for pre-law students, and is helpful in fields where interviewing and research are critical skills. LMC students gain valuable experience and writing samples for their portfolio by contributing stories to "The Experience", our award-winning college newspaper.

After completing their AA degree at LMC, many of our students transfer to four-year colleges or universities such as UC Berkeley, San Francisco State, San Jose State, CSU Sacramento, CSU Chico, CSU East Bay, and the University of the Pacific to continue their studies in journalism and mass communication.

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For more information on the program, visit our website at: **www.losmedanos.edu/journalism.**



"I chose LMC's LVN to RN transition program having graduated from their Vocational Nursing program. The instructors were supportive and LMC's reputation of having one of the best RN programs solidified my choice." — Eleonor Riley

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For more information and the nursing handbook visit www.losmedanosedu/nursing

NURSING REGISTERED AND VOCATIONAL

The need for nurses in California and throughout the country continues to grow.

As a nurse, students have the opportunity to care for clients in a variety of health care settings including hospitals, physician's offices, home health care, and skilled nursing facilities.

Los Medanos College offers both Registered Nursing (RN) and Licensed Vocational Nursing (LVN) programs. Students must successfully complete pre-requisite courses prior to applying for admission to each of the nursing programs. A one-year transition program is also offered to enable LVNs to become RNs.

Registered Nurses supervise the care and provide direct patient care. They work collaboratively with doctors. The RN major can be completed in four semesters. An Associate of Science Degree in Registered Nursing is awarded after the successful completion of the prerequisite nursing courses, the General Education courses, and the Registered Nursing program.

Licensed Vocational Nurses care for sick, convalescing and healthy patients under the direction of physicians or registered nurses. The LVN major can be completed in three semesters. A Certificate of Achievement in Vocational Nursing is awarded after successful completion of the prerequisite courses the General Education courses, and the Vocational Nursing program.

A career in nursing offers flexibility both in terms of hours and location. Nurses can work shifts including days, evenings and weekends. LVNs receive an annual starting salary between \$37,000 to \$45,000 and RNs receive an annual starting salary between \$50,000 to \$77,000 depending on the location and the shift differential.



PROCESS TECHNOLOGY

The Process Technology (PTEC) program was developed at Los Medanos College in response to requests from local chemical and refining industries.

This specialized and technical program trains women and men to become skilled process technicians or a plant operators for a variety of manufacturing plants including food, water, energy, petroleum, and chemical products. This is the only program of its kind in Northern California that prepares students for these skilled and lucrative careers.

Process technicians work with the latest computer control systems, take process samples, monitor equipment and solve problems in a team environment. These specialists require a good background in math and chemistry, computer skills, excellent communication skills in addition to the technical training.

The major for a certificate or a degree can be completed in three to four semesters. The curriculum was adapted from the national curriculum of the Center for Applied Process Technology (CAPT) to address the needs of our local industry partners and regulations in California. Our program includes field trips to local manufacturing plants and the opportunity to attend classes with experienced process technicians and engineers.

Local employers such as The Dow Chemical Company, Shell Oil Products, Tesoro Corporation, USS-POSCO, Conoco Phillips, Praxair Inc. and Delta Diablo Sanitation District are some of the employers eager to hire our graduates. Starting salaries currently range between \$45,000 and \$65,000 a year. In five years, with overtime, graduates can earn between \$70,000 to \$100,000 annually. "If you are interested in a high-demand, high-wage career with a starting salary between \$45,000 and \$65,000 a year, join us to launch your career!"

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For more information on the program, visit our website at: www.losmedanos.edu/ptec



RECORDING ARTS

The Recording Arts Program at LMC is considered one of the finest in the country offering students an opportunity to learn the craft in our two well-equipped state-of-the-art digital studios.

For over twenty years, our graduates have found rewarding work with sound reinforcement companies, record labels, musical groups, research and development enterprises, film companies and recording and mastering studios.

Our recording arts faculty, has been honored with multiple Grammy[®] Awards and industry accolades, and is dedicated to ensuring the success of every student in the program. The faculty is composed of engineers, producers, record company executives and professionals currently working in the industry.

The course of study is rigorous and challenging, covering live sound, aesthetics, music and recording theory, practical workshops and business subjects. The recording industry offers a wide range of both salaried and entrepreneurial opportunities.

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For more information on the program, visit our website at: www.losmedanos.edu/recarts.



TRAVEL MARKETING

The world of travel is an exciting and dynamic multi-billion dollar industry and our travel marketing program gives students the chance to master the skills needed to secure a lucrative and flexible career in the travel industry.

Los Medanos College is one of the few colleges in the state and in the country to provide courses leading to a variety of certificates and to an Associate of Science Degree in Travel Marketing. Our program trains students to become travel consultants and works closely with leaders in the travel industry and educational travel organizations.

Our curriculum, includes courses in destinations, sales and marketing, cruises, home-based sales, and travel planning. Various certificates range from the eight-unit Cruise Travel Specialist, which can be completed in one semester, to the 21-unit Certificate of Achievement, which can be completed in two semesters. The associate of science Degree can be completed in two or two and a half years. Upon completing select courses in the program, students can take national certification exams developed by The Travel Institute to become destination specialists.

All the courses are taught online, allowing students to study from home while interacting with classmates from all across the country.

Tour companies and cruise lines offer educational travel opportunities to travel professionals, allowing our graduates to indulge their love of travel. Salaries are usually commission-based with earnings for a full time travel consultant ranging from \$25,000 to \$60,000 or higher based on personal sales. "The travel courses I took at LMC opened up a whole new world for me. I know without this program, I would not be in the position I am in today."

— Bonnie Aiello, CTC, DS, Senior Vacation Specialist, CSAA Travel Northern California

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For more information on the program, visit our website at: www.losmedanos.edu/travel.



WELDING TECHNOLOGY

Skilled welders are in demand. The jobs are local and cannot be outsourced!

Our program gives women and men the hands-on skills, and the knowledge of industrial codes and standards that they need for a successful career. We have a comprehensive program using up-to-date techniques in the classroom and in our hands-on lab. Students learn arc and oxyacetylene welding; TIG, MIG and FCA welding; and how to read blueprints.

Welding expertise is required in the construction of bridges, buildings, ships, aircraft, automobiles, pipelines and other related industries where metal must be joined. Combination welders perform both arc and gas welding.

Graduate from our program with a Certificate of Achievement or an Associate of Science Degree in Welding. Students become qualified to take the state-certified welding tests required by employers.

Our graduates work in regional manufacturing plants such as USS POSCO, The Dow Chemical Company, motor vehicle body shops, sheet metal companies, truck trailer companies, construction companies, etc. Annual starting salaries range between \$26,000 and \$40,000 with excellent benefits and additional compensation for overtime. With additional training, experienced welders may advance to positions including welding supervisors, inspectors or instructors.

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For more information on the program, visit our website at: www.losmedanos.edu/welding.





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CAREER RESOURCES

Career choices continue to evolve as new industries and jobs develop. Many jobs today did not exist when your parents were growing up! Take the time to learn more about your interests and skills, and discover your aptitude before you select a career path.

CAREER EXPLORATION

Visit our Career Center at **www.losmedanos.edu/career** for career exploration and guidance.

Plan your career path by visiting **www.californiacolleges.edu** Learn more about careers by visiting websites like

America's Career InfoNet- **www.careerinfonet.org** Occupational Information Network **www.onetonline.org** America's Career Information Network **www.acinet.org**

EMPLOYMENT PROJECTIONS

Learn about labor market data by visiting websites such as: Bureau of Labor Statisticswww.stats.bls.gov/home.htm California Employment Development Department

www.edd.ca.gov





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