

process

technology program

The Process Technology Program was developed at Los Medanos College in response to requests from the chemical and refining industries in the Bay Area. The industries are facing a serious shortage of a trained workforce, given the large number of baby boomer retirements. This is the ideal time to get trained for a high skill-high wage career opportunity in the chemical, refining, oil and gas production/refining, power generation, water, waste management, food, and related manufacturing industries.

"Process technicians" are skilled plant operators. To run a plant, they require excellent math and communication skills, "people skills" and technical training in process technology. The curriculum is a combination of hands-on labs, classroom lecture and site visits.

If you are interested in a **starting salary between \$45,000 - \$65,000; which in 5 years will be between \$70,00 - \$100,000 annually (with overtime)**

if you are interested in a career and not just a job; if you are a committed person with an excellent work ethic, this is the industry for you! Join us to launch your career!

www.losmedanos.edu/PTEC

Certificate of Achievement

This 33-unit certificate program can be completed in 3-4 semesters.

The core curriculum:

- PTEC 10 – Introduction to Process Technology (3 units), Prerequisite: Math 25
- PTEC 12 – Petrochemical Safety, Health and Environment (1 unit)
- PTEC 24 – Process Instrumentation (3 units)
- PTEC 25 – Process Technology I – Equipment (3 units)
- PTEC 27 – Applied Instrumentation (1 unit), Prerequisite: Chem 6 or 7
- PTEC 35 – Process Technology II – Systems (3 units)
- PTEC 44 – Petrochemical Simulation Laboratory (1 unit)
- PTEC 45 – Process Technology III – Operations (3 units)
- PTEC 48 – Process Trouble Shooting (3 units)
- MATH 30 – Intermediate Algebra (4 units)
- CHEM 6 – Introduction to Inorganic and Physical Chemistry (4 units) or CHEM 7 – Introduction to General, Organic and Biochemistry (4 units)
- PHYS 15 – Introduction to Physics (4 units)

Graduation Requirements:

The Los Medanos College Catalog contains information about additional courses that are required for graduation with a Certificate of Achievement of an Associate of Science degree.

Associate of Science Degree

Complete your General Education requirements in addition to the core courses for the Certificate of Achievement in Process Technology to earn an AS Degree in Process Technology. Math 30 also satisfies the Math requirement for the AS degree. Physics 15 also satisfies the Physical Science requirement for the AS degree. A total of 60 units to achieve an AS Degree in PTEC can be completed in 2-2 1/2 years.

Competency Requirements:

Students are advised to complete English 90 – Integrated Reading, Writing and Critical Thinking before entering the PTEC program. Placement tests are offered by the Assessment Center to determine the level of your competency in English and in Math. It is strongly recommended that you take these tests before you begin the PTEC program. For more information and to schedule an assessment, visit www.losmedanos.edu/assessment.

PTEC 4 Career Exploration

PTEC 4 is a 2 unit, online, "bridge" course that allows prospective students to determine if Process Technology is the correct career choice.

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frequently asked questions

1. How much does the program cost?

The enrollment fee per unit of credit is currently \$26 for California residents*. Non-California-residents should contact the Admissions Office for the fees. Textbooks for each course will need to be purchased. The LMC bookstore will stock the books for each course immediately before each course begins. Parking for each semester is \$40*. Scholarships are available for those in financial need.

*Subject to change.

2. How long does it take to complete the program?

You can determine your own pace for completing the certificate or the degree. The Certificate of Achievement can be completed in 3-4 semesters. The AS Degree can be completed in 2 to 2 1/2 years.

3. What if I already have an AS/AA degree or a BA degree, can I automatically get an AS Degree in PTEC?

If you already have an AS/AA or a higher degree, you may choose to only complete a Certificate of Achievement in PTEC at LMC.

If you choose the path of an LMC AS degree in PTEC, your previous degree will need to be evaluated by LMC since degree requirements are not identical in different institutions. Begin by asking your previous institution to mail your "Official Transcript" to the LMC Office of Admissions and Records (A&R). The LMC A&R Office will evaluate your transcript for equivalency. This will take a few weeks, so plan early! Next, make an appointment to meet an LMC counselor to determine if you need to take some additional courses at LMC to get "our" AS degree. Finally, take the "missing" courses to complete the LMC AS degree requirements.

4. Are the PTEC courses transferable to a 4-year university?

No, the PTEC courses are non-transferable, occupational courses. General Education courses in the program such as Math, Chemistry and Physics are transferable.

5. Does the college provide employment assistance?

Yes. The PTEC program at the college has close ties with the local industry. Graduates from the PTEC program will be job ready for positions in the petrochemical industry, food manufacture, water sanitation, waste disposal and other industries that employ plant operators. The program faculty and the LMC employment center will provide you with employment leads, however employment is not guaranteed.

6. How does the LMC PTEC program compare with other PTEC programs?

We are the only PTEC program in Northern California. The majority of the PTEC training programs are in Texas and Louisiana.

The curriculum adopted by Los Medanos College was developed by the well-known Center for the Advancement for Process Technology (CAPT) in Texas. This curriculum was adapted to the local industry needs in California, in consultation with the PTEC program advisory board. The program advisory board is very active and is comprised of seasoned and senior industry professionals. State-of-the-art simulation software is used in the computer lab. Our hands-on lab teaches essential skills required by the industry. Site visits and lab classes are coordinated by the program faculty in collaboration with local industry. All the faculty in the program are experienced in the industry.

For More Information:

William Cruz, Director of the Process Technology Program, can be contacted at (925) 439-2181 ext. 3194 or by email at wacruz@losmedanos.edu.

The LMC counselors are also available for assistance in identifying general aptitude and interests for PTEC, as well as to determine the General Education Requirements to complete the Associate Degree in Process Technology.

This project is an equal opportunity program and was funded in part by a grant awarded under the President's Community-Based Job Training Grants, as implemented by the U.S. Dept. of Labor's Employment & Training Administration. Auxiliary aids, and services are available upon request to individuals with disabilities.

LOS MEDANOS
COLLEGE

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