

The Energy career duster prepares individuals for careers in the designing, processing, planning, maintaining, generating, transmission, and distribution of traditional and alternative energy. This career duster indudes occupations ranging from petroleum engineers, rotary drill operators, chemical technicians and, power plant operators to solar photovoltaic installers and wind turbine service technicians.

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The Oil and Gas Exploration and Production program of study focuses on occupational and educational opportunities associated with processing, refining, and distributing petroleum and gas. This program of study includes the process of regulating the flow of oil into pipelines, controlling pumping systems, and operating and maintaining machinery to generate electric power.

Oil and Cas Production I Foundationsof Energy
Oil and Gas Production II Occupational Safety and Environmental Technology I
Oil and Gas Production III Occupational Safety and Environmental Technology II
Oil and Cas Production IV  Applied Mathematics for Technical Professionals  Career and Technical Education Project-Based Capstone  Practicum in Energy  Career Preparation for Programs of Study  Career Preparation for Programs of Study + Extended Career  Preparation

AP Chemistry IB Chemistry SL IB Chemistry HL

Dual credit offerings will vary by local education agency.

Shadow a chemical engineer in a lab at an oil and gas production company to learn about biofuels and other technologies that use oil Intern in petroleum engineering to learn about planning, installing, and inspecting facilities for oil extraction

Tour oil and gas production facilities
Participate in Skills USA
Shadow a technician in the oil and gas industry

NCCER Core NCCER Instrumentation Level I Certified Logistics Technician (CLT) Certified Production Technician (CPT) 4.0 Lean Sx Sgma Green Belt Certification Median Wage: \$134,225 Annual Openings: 1,443 10-Year Growth: 27%

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Median Wage: \$62,096 Annual Openings: 787

10-Year Growth: 17%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024

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