

Energy Production Technology

Associate in Applied Science Degree Program Code EPTE

Advisors: David Blumberg, (269) 926-2124, dblumberg@lakemichigancollege.edu
Ken Flowers, (269) 927-4103, flowers@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course requirements.

Degree Requirements

Credit Hours

College Requirements

English 101, English Composition.....	3
English 103, Technical Writing, or English 102 English Composition.....	3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3
** Physical Education 200, Healthful Living or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health.....	1 or 3

Support Courses

Mathematics 122, Intermediate Algebra.....	4
Mathematics 128, Pre-calculus Algebra, or Mathematics 135, Pre-Calculus.....	3/4/5
Physics 110, Technical Physics.....	4
Group III Humanities (Excluding: COMM 101).....	3 or 4

Major Courses

Electronics 100, DC Electricity.....	4
Electronics 106, AC Electricity.....	3
Electronics 151, Transformers and Motor Controls.....	4
Energy Production Technology 111, Introduction to Energy Production & Distribution.....	3
Energy Production Technology 116, Chem and RP fundamentals.....	3
Energy Production Technology 200, Power Plant Materials.....	3
Energy Production Technology 205, Energy/Power Field Experience.....	2
Energy Production Technology 225, Reactor Theory, Safety and Design, or Energy Production Technology 182, Boiler Theory Safety & Design Systems....	3
Energy Production Technology 230, Thermo Fluid Science.....	3
Energy Production Technology 235, Power Plant Components.....	3
Energy Production Technology 250, General Maintenance Systems & Components.....	3
Industrial Maintenance 204, Basic Hydraulics and Pneumatics.....	2
Industrial Maintenance 240, Predictive & Preventative Maintenance.....	3
Trade Related Instruction 138, Industrial Safety.....	1

** Transferring students are encouraged to take PHED 212 or PHED 214.

About the Area of Study

A solid knowledge of science and math, strong communication skills, the ability to problem solve and attention to detail are critical to being successful in the energy production field. After completion of the associate's degree program at LMC, those who enter the field should expect a career that will involve on-going, extensive on-the-job training. In fact, local nuclear plants can often invest up to \$2 million per employee in training during an entire career.

Associate's Degree

By completing the 65-credit program in Energy Production Technology, you may apply for an Associate in Applied Science degree. You may also be eligible for entrance into the Bachelor of Applied Science – Energy Production and Distribution Management program.

Transfer Resources

If you are planning to transfer to a four-year college or university, you should become familiar with your chosen school's requirements. See your Academic Advisor for assistance in developing your Student Education Plan or visit

www.lakemichigancollege.edu/transfer

Sample Course Sequence

An advisor will help you develop course program sequences.

Energy Production Technology/HPRP

Associate in Industrial Technology Degree Program Code 372

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Degree Requirements

Credit Hours

College Requirements

English 101, English Composition.....	3
English 103, Technical Writing.....	3
Political Science 101, National Government, or Political Science 102, State Governments, or History 201, American History to 1865, or History 202, American History 1865 to Present.....	3
**Physical Education 200, Healthful Living or Physical Education 212, Health and Fitness, or Physical Education 214, Personal Health	1 or 3

Support courses

Mathematics 122, Intermediate Algebra	4
Mathematics 128, Pre-calculus Algebra	4
Physics 110, Technical Physics	4
Chemistry 101, Introductory Chemistry	4
Business Administration 220, Organizational Behavior, or Group III Humanities.....	3

Major Courses

Energy Production Technology 100, Energy Industry Fundamentals Concepts.....	3
Energy Production Technology 200, Power Plant Materials	3
*Energy Production Technology 205, Energy/Power Field Experience.....	2
Energy Production Technology 210, Radiation Detection and Protection	3
Energy Production Technology 225, Reactor Theory, Safety and Design.....	3
Energy Production Technology 230, Thermo Fluid Science	3
Energy Production Technology 235, Power Plant Components.....	3
Energy Production Technology 253, Radiation Protection Capstone	3
Trade Related Instruction 138, Industrial Safety.....	1

Health Physics Radiation Protection Concentration

Energy Production Technology 223, Radiation Monitoring.....	3
Energy Production Technology 233, Dosimetry	3
Energy Production Technology 243, Radiation Materials and Control	3
Energy Production Technology 249, Safety Response	3

Electives (suggested but are not required)

Energy Production Technology 111, Intro to Energy Production Distribution.....	3
Energy Production Technology 116, Chem and RP Fundamentals	3
Energy Production Technology 120, Power Plant Drawings.....	3

*All field experience must be scheduled through an advisor.

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