

ELECTROMECHANICAL TECHNOLOGY

Program Description

The Electromechanical Technology (ET) program is designed to prepare individuals for level jobs in industrial settings that require electrical and mechanical skills. While the program focuses primarily on industrial settings, graduates of the program are prepared for maintenance jobs in a variety of workplaces such as schools, hospitals, banks, government agencies, and independent contractors. The Industrial Equipment Repair Certificate of Proficiency and the Electromechanical Maintenance Technical Certificate provide both one semester and one year educational opportunities for students.

Curriculum

Upon satisfactory completion of the first semester of the Electromechanical Technology program, students will earn a certificate of proficiency in Industrial Equipment Repair. This certificate of proficiency acknowledges that the student has developed basic competencies in industrial electricity and mechanics for limited entry-level maintenance jobs usually outside of the industrial setting unless the student has multiple years of maintenance work experience.

Students continuing on to satisfactorily complete the one-year Electromechanical Technology program will earn a technical certificate. Graduates of the Electromechanical Technology program should possess those skills necessary to compete for entry-level maintenance jobs in a variety of workplace settings and apprentice/trainee positions in the industrial setting. Students pursuing high-demand, high-wage maintenance jobs in the industrial setting should note that these jobs usually require advance training (at-least two years) and/or maintenance work experience.

Graduates of the Electromechanical Technology (ET) program desiring to continue their training to an advanced technical certificate should note that the ET technical certificate qualifies as meeting all the prerequisites for entering the Advanced Technical Certificate in Electromechanical Instrumentation Technology (which also leads to an Associate of Applied Science Degree in Industrial Technology).

Some of the courses in the Electromechanical Technology program may be offered both day and night to accommodate rotation shift workers provided there is sufficient enrollment to support duplicate offerings. The length of the Electromechanical Technology Technical Certificate for a student attending full-time is two (2) semesters and one (1) summer term. Program costs are approximately \$2,768.00 for tuition and fees are \$1070.00 for books and supplies.

**ELECTROMECHANICAL TECHNOLOGY
GRADUATION REQUIREMENTS**
(Suggested Schedule)

<u>Fall Semester</u>			<u>Credit Hours</u>
MAT	2214	Advanced Industrial Math OR **MATH 0183 Intermediate Algebra (3 Credit Hours)	4
ELM	1064	Industrial Electricity	4
ELM	1074	Industrial Mechanics	4
ELM	1033	Industrial Diagrams	3
ELM	1012	Maintenance Welding	2
Exit: Industrial Equipment Repair Certificate of Proficiency			(16-17)
<u>Spring Semester</u>			
ELM	1054	Industrial Circuits & Controls	4
ELM	2084	Advanced Industrial Mechanics	4
ELM	1043	Pneumatics & Hydraulics	3
ENGL	1013	**Composition I OR COMM 1203 Tech Communications	3
CIS	2223	**Microcomputer Applications OR CFA 1103 Tech Computer Fundamentals	3 (17)
<u>Summer Term I</u>			
ELM	1023	Basic Machine Shop	3
COMM	1102	Employability Skills/Ethics **Required for AAS	2 (5)
Exit: Electromechanical Technology Technical Certificate			38-39