

CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in Engineering Technology, Operations Emphasis is an 18-month program that provides students with class room and laboratory experiences in electricity, mechanical power, pneumatics, hydraulics and ferrous and non-ferrous material. The Operations emphasis focuses on those skills used in operational settings. Courses include Industrial Electricity, Mechanical Power Transmission and Fluid Power.

STUDENT LEARNING OUTCOMES – Graduates of this program will have the opportunity to:

- Demonstrate the knowledge and ability to follow guidelines for safe operation and maintenance of various mechanical, electrical, and fluid power systems.
- Demonstrate the skills to design and operate basic electrical, mechanical, and fluid power systems and to use computer-based programmable logic controller devices to monitor their operation and performance.
- Demonstrate the skills and knowledge to apply various troubleshooting techniques for identification and correction of faults in electrical circuits and mechanical and high pressure fluid power systems.
- Demonstrate the ability and skills to prepare technical reports and communicate the results through effective oral communications.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

	CR	SEMESTER
COMMUNICATIONS: ENG 107	3	_____

SPECIAL PROGRAM REQUIREMENTS (30 Credits):

	CR	SEMESTER
AC 103B Introduction to HVAC Mechanical Theory and Application	5	_____
BI 104B Introduction to Mechanical Codes	3	_____
CONS 120 Printreading and Specifications	3	_____
MT 102B Fundamentals of Electricity	4	_____
MT 104B Industrial Electricity	4	_____
MT 106B Mechanical Power Transmission	4	_____
MT 108B Fluid Power (Pneumatics, Hydraulics, Instrumentation)	4	_____

Plus 3 credits:

MT	3	_____
-----------	---	-------

Computation included in MT 102B

Human Relations included in MT 102B

33
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

CERTIFICATE OF ACHIEVEMENT