

Industrial Electronics Technology
Associate in Applied Science Degree (AAS)

At a Glance

Industrial Electronics Technicians are needed in every industry that uses machinery, from automotive assembly plants to computer manufacturers. This program prepares students to apply technical knowledge and skills to assemble, install, operate, maintain, and repair electrical/electronic equipment used in industry and manufacturing. Instruction includes installing, maintaining, and testing various types of equipment.

General Education & Elective		CREDITS
CIS 146	Microcomputer Applications	3
ENG 101	English Composition I	3
MTH 100	Intermediate College Algebra	3
PHL 206	Ethics & Society	3
PSY 200	General Psychology	3
SPH 106	Fundamentals of Oral Communication.....	3
Natural Science & Math Elective (<i>Refer to general education section of catalog for electives</i>)		3-4
Total General Education & Elective Credit Hours		21-22

Industrial Electronics Technology Core		CREDITS
ILT 160	Direct Current Fundamentals.....	3
ILT 161	Alternating Current Fundamentals.....	3
ILT 162	Solid State Fundamentals.....	3
ILT 163	Digital Fundamentals	3
Total Industrial Electronics Technology Core Credit Hours		12

Industrial Electronics Technology Major		CREDITS
ILT 160	Direct Current Fundamentals.....	3
WKO 131	CPT 1 MSSC.....	3
WKO 132	CPT 2 MSSC Quality Practices	3
WKO 133	CPT 3 MSSSC Manufacturing Process and Production	3
WKO 134	CPT 4 MSSC Maintenance Awareness	3
ILT 108	Introduction to Instruments and Process Control.....	3
ILT 117	Principles of Construction Wiring	3
ILT 118	National Electric Code.....	3
ILT 164	Circuit Fabrication I.....	1
ILT 166	Motors and Transformers I	3
ILT 194	Introduction to Programmable Logic Controllers (AUT 114 OR AUT 219)	3
ILT 209	Motor Controls I	3
Total Industrial Electronics Technology Major Credit Hours.....		34

Total Credit Hours 67-68

MSSC Certified Production Technician
Short-Term Certificate (STC)

While pursuing the Industrial Electronics Technology degree and upon successful completion of the courses identified below and all proctored exams, the stackable MSSC Certified Production Technician Short-Term Certificate will be awarded to students.

Note: After successfully passing a proctored exam at the conclusion of each course, students will receive a certification for each course from the Manufacturing Skills Standards Council. After successfully completing all four courses and passing each of the proctored exams, students will receive credentials as a Certified Production Technician from the Manufacturing Skills Standards Council.

		CREDITS
WKO 131	CPT 1 MSSC	3
WKO 132	CPT 2 MSSC Quality Practices.....	3
WKO 133	CPT 3 MSSSC Manufacturing Process and Production	3
WKO 134	CPT 4 MSSC Maintenance Awareness.....	3
Total Credit Hours		12

Introduction to Electrical Theory
Short-Term Certificate (STC)

While pursuing the Industrial Electronics Technology AAS degree and upon successful completion of the courses identified below, the stackable Introduction to Electrical Theory Short-Term Certificate will be awarded to students.

		CREDITS
ILT 160	Direct Current Fundamentals	3
ILT 161	Alternating Current Fundamentals.....	3
ILT 162	Solid State Fundamentals.....	3
ILT 163	Digital Fundamentals	3
ILT 164	Circuit Fabrication I.....	1
Total Credit Hours.....		13

Industrial & Residential Wiring and Process Controls
Short-Term Certificate (STC)

While pursuing the Industrial Electronics Technology AAS degree and upon successful completion of the courses identified below, the stackable Industrial & Residential Wiring and Process Controls Short-Term Certificate will be awarded to students.

		CREDITS
ILT 108	Introduction to Instruments and Process Control.....	3
ILT 117	Principles of Construction Wiring	3
ILT 118	National Electric Code	3

Total Credit Hours.....9

Motors, Transformers Programmable Logic Controllers

Short-Term Certificate (STC)

While pursuing the Industrial Electronics Technology AAS degree and upon successful completion of the courses identified below, the stackable Motors, Transformers Programmable Logic Controllers Short-Term Certificate will be awarded to students.

	CREDITS
ILT 166 Motors and Transformers I	3
ILT 194 Introduction to Programmable Logic Controllers (AUT 114 OR AUT 219)	3
ILT 209 Motor Controls I	3
Total Credit Hours.....	9

Biomedical Technology

Short-Term Certificate (STC)

While pursuing the Industrial Electronics Technology AAS degree and upon successful completion of the courses identified below, the stackable Biomedical Technology Short-Term Certificate will be awarded to students.

	CREDITS
ILT 117 Principles of Construction Wiring	3
ILT 160 Direct Current Fundamentals	3
ILT 161 Alternating Current Fundamentals.....	3
ILT 164 Circuit Fabrication I.....	1
ILT 203 Biomedical Electronics I.....	3
ILT 204 Biomedical Electronics II	3
ILT 294 Biomedical Electronics Clinical I.....	3
ILT 295 Biomedical Electronics Clinical II.....	3
Total Credit Hours.....	22