

Industrial Electronics Technology
Associate in Applied Science Degree (AAS)

At a Glance

Industrial Electronics Technicians are needed in every industry that uses electrical components machinery, from automotive assembly plants, computer manufacturers, and hospitals. This program prepares students to apply technical knowledge and skills to install, replace, repair, recalibrate, and maintain electrical instrumentation and equipment.

General Education & Elective		CREDITS
CIS 146	Microcomputer Applications	3
ENG 101	English Composition I	3
MTH 100	Intermediate College Algebra OR Higher Level.....	3
Natural Science/Math Elective*		3-4
Humanities and Fine Arts Elective*		3
History, Social and Behavioral Sciences Elective*		3
SPH 106	Fundamentals of Oral Communication.....	3
<i>*Refer to catalog for general education electives.</i>		
Total General Education & Elective Credit Hours		21-22

Industrial Electronics Core Courses		CREDITS
ILT 117	Principles of Construction Wiring	3
ILT 118	National Electric Code.....	3
ILT 160	Direct Current Fundamentals.....	3
ILT 161	Alternating Current Fundamentals.....	3
ILT 166	Motors and Transformers I	3
ILT 209	Motor Controls I	3
Total Industrial Electronics Technology Core Credit Hours		18

Electronics Technician		CREDITS
WKO 131	CPT 1 MSSC Safety Course	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 162	Solid State Fundamentals	3
ILT 163	Digital Fundamentals	3
ILT 164	Circuit Fabrication I.....	1
ILT 194	Introduction to Programmable Logic Controllers (AUT 114 OR AUT 219).....	3
Total Electronics Technician Credit Hours.....		25

Total Credit Hours – AAS Industrial Electronics Technology64 - 65

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 Safety Course	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