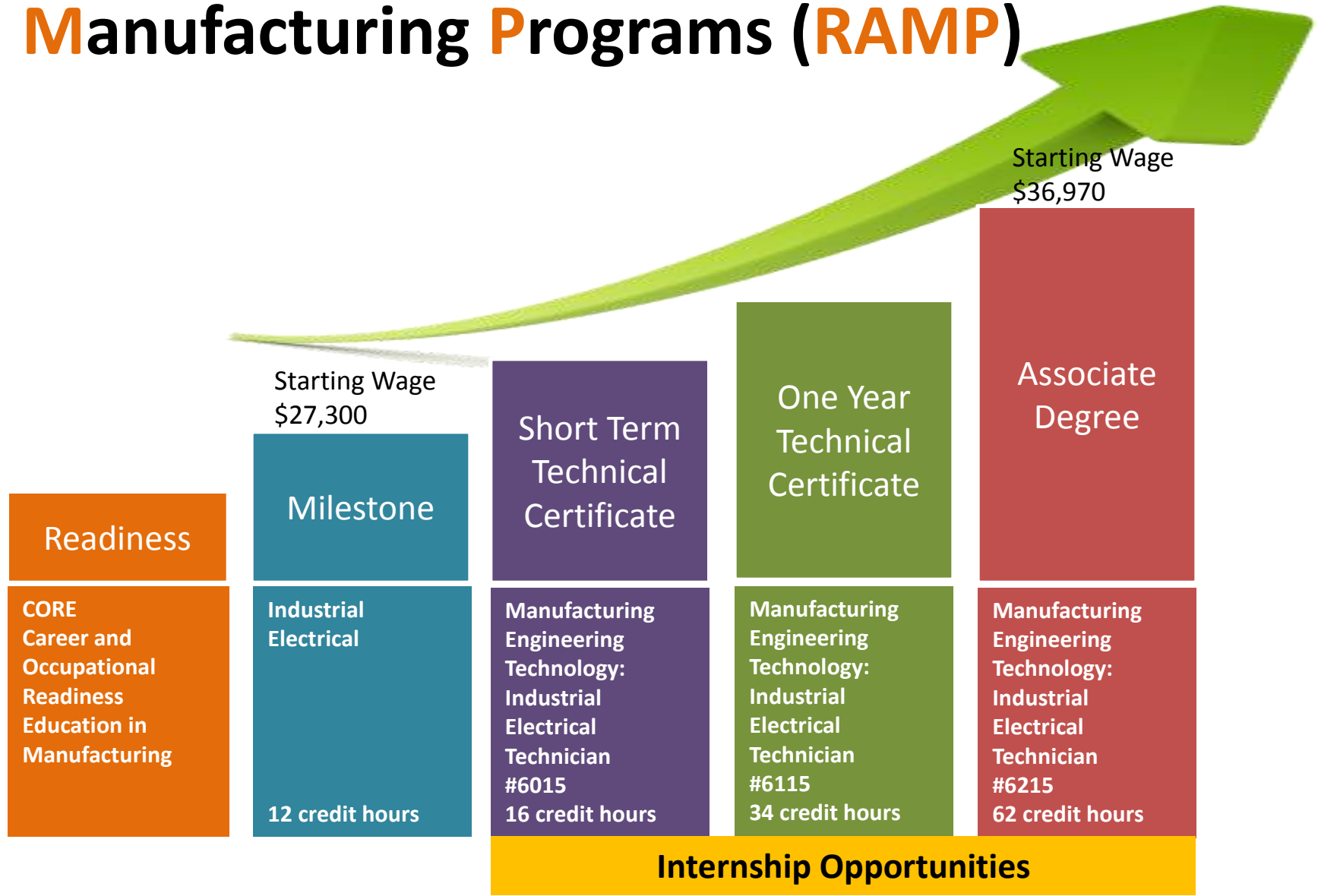


Industrial Electrical Technician

Retooling Adults for Manufacturing Programs (RAMP)



Milestone

Program Overview:

The Industrial Electrical Technician program is designed to provide students with the knowledge and skills necessary for the competent performance as an entry-level electrical maintenance technician. The graduate will repair, test, adjust, or install electronic equipment.

Occupational Title	Starting Wage:	Annual Job Openings
■ Electrical and Electronics Repair, Commercial and Industrial Equipment	\$37,070	42
■ Electrical and Electronic Engineering Technicians	\$36,970	92
■ Industrial Engineering Technicians	\$36,836	87

Industrial Electrical Technician

Retooling Adults for Manufacturing Programs (RAMP)



Readiness

Milestone

CORE
Career and
Occupational
Readiness
Education in
Manufacturing

Industrial
Electrical

12 credit hours

Milestone

Industrial Electrical Milestone

The milestone denotes industry recognized skills and knowledge necessary for an entry level position. Students successfully completing the specified Milestone for the Industrial Electrical Technician Associate of Applied Science Degree (Curriculum Code 6215) will be eligible to participate in a Work-Based Learning experience.

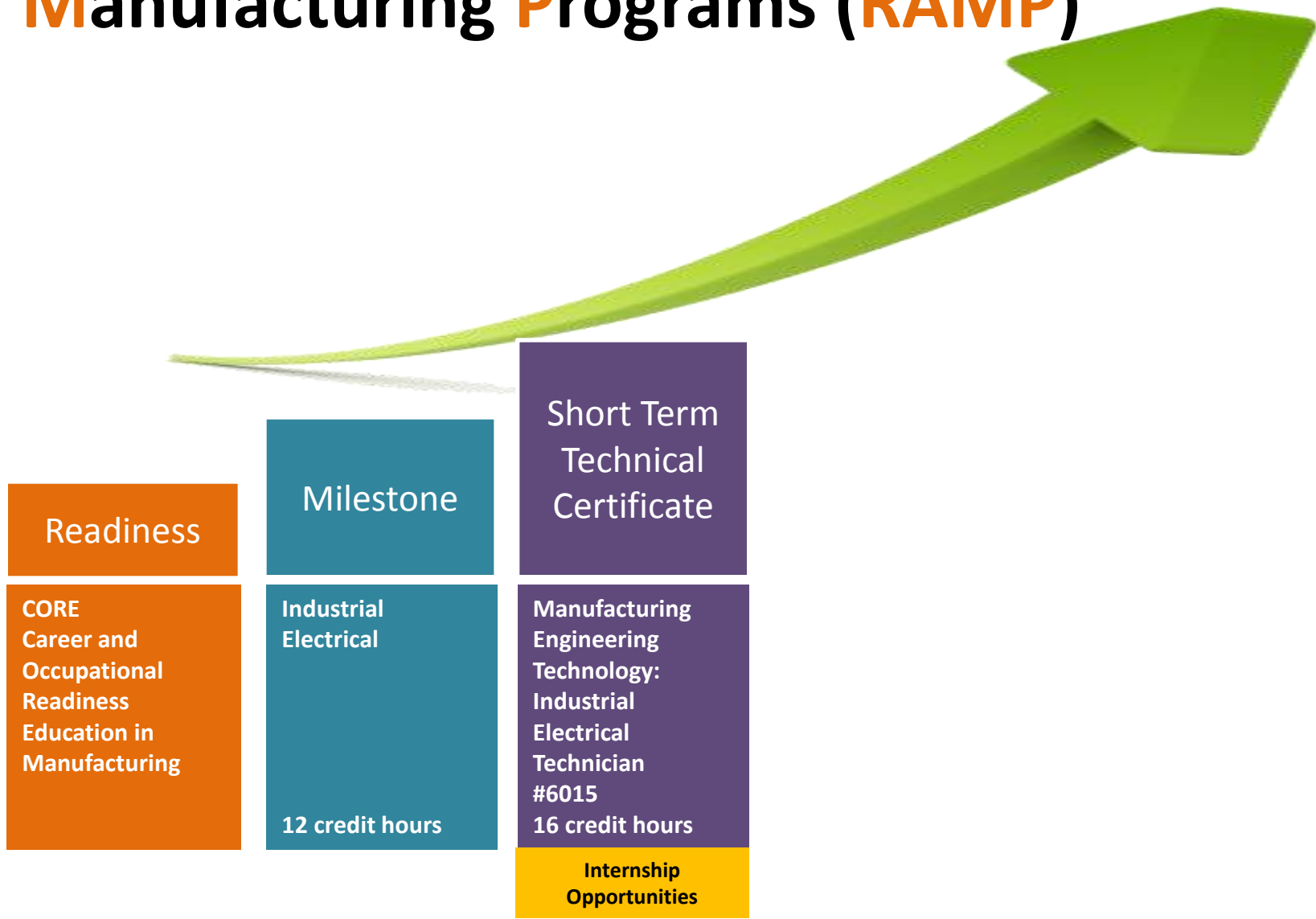
Required Courses			Credit Hours	
Δ	AETC	121	Programmable Logic Controllers	3
Δ	ELCT	111	Electrical Circuits I	3
Δ	ELCT	223	Electrical Blueprint Reading	2
Δ☆	SDEV	101	College 101	1
Δ	TECN	133	Mechanical Systems	3
				<hr/>
				12

Notes

1. Δ Program Milestone course.
2. ☆ A student must register for the orientation course when enrolling for more than six credit hours per semester or any course that would result in an accumulation of thirteen or more credit hours.

Industrial Electrical Technician

Retooling Adults for Manufacturing Programs (RAMP)



Short-Term Technical Certificate

Lorain County Community College
Manufacturing Engineering Technology
Industrial Electrical Technician
 Engineering Technologies Division
 Short Term Technical Certificate - Curriculum Code 6015

The Industrial Electrical Technician program is designed to provide students with the knowledge and skills necessary for the competent performance as an entry-level electrical maintenance technician. The graduate will repair, test, adjust, or install electronic equipment. Lorain County Community College has articulation agreements with colleges and universities including programs offered by LCCC's University Partnership.

Course	Course Title	Credits	Contact Hrs.	Lec Hrs.	Lab Hrs.
First Year					
Fall Semester					
CISS 121	Microcomputer Applications I	3	4	2	2
ELCT 111	Electrical Circuits I	3	5	2	3
ENGR 120	Introduction to Engineering	1	2	1	1
☆ SDEV 101	College 101	1	1	1	0
		8			
Spring Semester					
AETC 121	Programmable Logic Controllers	3	5	2	3
ELCT 223	Electrical Blueprint Reading	2	2	2	0
TECN 133	Mechanical Systems	3	5	2	3
		8			
Total Semester Credit Hours		16			

Established	April 15
Effective	May 16

Notes

- ☆ A student must register for the orientation course when enrolling for more than six credit hours per semester or any course that would result in an accumulation of thirteen or more credit hours.

Industrial Electrical Technician

Retooling Adults for Manufacturing Programs (RAMP)



One-Year Technical Certificate

Lorain County Community College
Manufacturing Engineering Technology
Industrial Electrical Technician
 Engineering Technologies Division
 One Year Technical Certificate - Curriculum Code 6115

The Industrial Electrical Technician program is designed to provide students with the knowledge and skills necessary for the competent performance as an entry-level electrical maintenance technician. The graduate will repair, test, adjust, or install electronic equipment. Lorain County Community College has articulation agreements with colleges and universities including programs offered by LCCC's University Partnership.

	Course	Course Title	Credits	Contact Hrs.	Lec Hrs.	Lab Hrs.
First Year						
Fall Semester						
	CISS 121	Microcomputer Applications I	3	4	2	2
	CMMC 151	Oral Communications	3	3	3	0
	ELCT 111	Electrical Circuits I	3	5	2	3
	ENGL 161	College Composition I	3	3	3	0
	ENGR 120	Introduction to Engineering	1	2	1	1
	MTHM 121	Technical Mathematics I	4	4	4	0
	☆ SDEV 101	College 101	1	1	1	0
			18			
Spring Semester						
	AETC 121	Programmable Logic Controllers	3	5	2	3
	> ELCT 112	Electrical Circuits II	4	6	3	3
	> ELCT 211	Electrical Power & Devices	4	6	3	3
	ELCT 223	Electrical Blueprint Reading	2	2	2	0
	TECN 133	Mechanical Systems	3	5	2	3
			16			
		Total Semester Credit Hours	34			

Established April 15
Effective May 16

Notes

1. > Indicates that this course requires a prerequisite.
2. ☆ A student must register for the orientation course when enrolling for more than six credit hours per semester or any course that would result in an accumulation of thirteen or more credit hours.

Industrial Electrical Technician

Retooling Adults for Manufacturing Programs (RAMP)



Associate of Applied Science

Lorain County Community College
Manufacturing Engineering Technology
Industrial Electrical Technician
 Engineering Technologies Division
 Associate of Applied Science - Curriculum Code 6215

The Industrial Electrical Technician program is designed to provide students with the knowledge and skills necessary for the competent performance as an entry-level electrical maintenance technician. The graduate will repair, test, adjust, or install electronic equipment. Lorain County Community College has articulation agreements with colleges and universities including programs offered by LCCC's University Partnership.

Course	Course Title	Credits	Contact Hrs.	Lec Hrs.	Lab Hrs.
First Year					
Fall Semester					
CISS 121	Microcomputer Applications I	3	4	2	2
ELCT 111	Electrical Circuits I	3	5	2	3
ENGL 161	College Composition I	3	3	3	0
ENGR 120	Introduction to Engineering	1	2	1	1
MTHM 121	Technical Mathematics I	4	4	4	0
☆ SDEV 101	College 101	1	1	1	0
		15			
Spring Semester					
AETC 121	Programmable Logic Controllers	3	5	2	3
CMMC 151	Oral Communications	3	3	3	0
> ELCT 112	Electrical Circuits II	4	6	3	3
> ELCT 121	Digital Electronics	4	6	3	3
TECN 133	Mechanical Systems	3	5	2	3
		17			
Summer Semester					
ELCT 287	Work-Based Learning I	1			
		1			
Second Year					
Fall Semester					
* AETC 223	Programmable Logic Controllers II	3	5	2	3
AETC 241	Instrumentation & Control	3	5	2	3
> ELCT 211	Electrical Power & Devices	4	6	3	3
> PHYC 150	General Physics I	4	6	3	3
		14			
Spring Semester					
ELCT 223	Electrical Blueprint Reading	2	2	2	0
> ELCT 224	Industrial Electronics	4	6	3	3
* QLTY 236	Reliability Centered Maintenance	3	4	2	2
	Arts and Humanities Elective ^	3	3	3	0
	Social Sciences Elective ^^	3	3	3	0
		15			
Total Semester Credit Hours		62			

Notes

1. > Indicates that this course requires a prerequisite.
2. * Indicates that this course requires a prerequisite or may be taken concurrently.
3. ^ Course selected from the following list: ARTS 243, 244, 245, 246, 254; ENGL 251, 252, 253, ENGL 254, 255, 257, 259, 261, 262, 265, 266, 269; HUMS 151, 161, 261, 262, 271, 274; MUSC 262; PHLX 165, 262; RELG 181, 261, 262; THTR 151.
4. ^^ Course selected from the following list: HSTR 151, 152, 161, 162, 171, 252, 267, 268, 269; PLSC 156; PSYH 151; SOCY 151.
5. ☆ A student must register for the orientation course when enrolling for more than six credit hours per semester or any course that would result in an accumulation of thirteen or more credit hours.

Established	Jan 14
Revised	Apr 15
Effective	May 16