



Micro-credentials and Badges

Employees and potential employees in the rapidly growing advanced manufacturing industry need to continuously upgrade their skills and demonstrate mastery of sophisticated technical skills, high level workplace competencies, and leadership skills to meet the demands of the fast paced work place of the future.

Traditional educational models are being adapted to award recognition for skills gained in the workplace or attained through ongoing education and training.

LCCC awards micro-credentials to individuals demonstrating competency in manufacturing related skill sets. Individuals can earn these micro-credentials in several ways:

- assessment and demonstration of skills acquired through work experience
- successful completion of training modules related to defined skills or job level
- skills and concepts learned in a credit class which align with a third party credential or micro-credential

One value of the micro-credential is that the student has the ability to identify specific skills required for job success and take short courses that specifically address those needs. These micro-credentials are stackable. A student can take as few or as many micro-credential courses as needed. These “stack” toward certificates in a specific program area. Certificates can then be combined for credit toward a degree program in the related field.

In addition to technical skill recognition through micro-credentials, LCCC awards badges. Badges are used to acknowledge skills sets necessary for employability and leadership in today's organizations. Presently these are used to recognize completion of a range of workshops related to soft skills and leadership competencies.

Micro-credentials and badges are an indicator of the skillsets and training an individual brings to the workplace. When paired with specific job descriptions, on-the-job mentoring, and a clearly defined organizational talent pipeline, these serve to assist in identifying the qualifications of individuals seeking employment or advancement.

Examples of micro-credentials, badges, credentials and degrees are attached.

LCCC can customize micro-credentials to suit *your* workforce needs.



LCCC CREDIT MICRO-CREDENTIALING

**Industry
Example:**

INDUSTRIAL AUTOMATION AAS DEGREE (satisfies 47 of 68 required credits*)

INDUSTRIAL AUTOMATION CERTIFICATE (satisfies 33 of 36 required credits*)

Electricity Skills Level 1 Micro-credential		Electricity Skills Level 2 Micro-credential		Electricity Skills Level 3 Mechanical Skills Level 2 Micro-credential		Mechanical Skills Level 1 Micro-credential	
BGT 110	Fundamentals of Technology (3 credits)	ELE 175	Introduction to Microprocessors (4 credits)	BGT 240	Industrial Automation (3 credits)	MET 104	Manufacturing (3 credits)
ELE 120	DC Circuits (4 credits)	ELE 235	Programmable Controllers (2 credits)	MET 115	Computer Aided Manufacturing (3 credits)	BGT 103	Fluid Power (3 credits)
ELE 130	Digital Fundamentals (4 credits)	ELE 210	Electronic Circuits (4 credits)			MTD 200	Introduction to Mechanisms (3 credits)
ELE 165	AC Circuits (4 credits)	ELE 215	Industrial Electronics (2 credits)			MET 111	Computer-Aided Drafting (4 credits)

*MAT 130 Industrial Mathematics and additional general education credit classes required.

Successful completion of selected course work will result in the awarding of credits towards certificate or degree programs and have noncredit micro-credential awarded upon request:

**Career
Example:**

TOOL AND DIE MACHINIST APPRENTICESHIP CERTIFICATE (31 credits with apprenticeship component**)

Machinist Level 1 Micro-credential		Machinist Level 2 Micro-credential		Machinist Level 3 Micro-credential		Machinist Level 4 Micro-credential	
MAT 130	Industrial Mathematics (3 credits)	MET104	Manufacturing Processes (3 credits)	MET 115	Computer Aided Manufacturing (3 credits)	MTD 206	Machine Design (4 credits)
MET 101	Mechanical Print Reading (3 credits)	MET 111	Computer Aided Drafting (4 credits)	MTD 201	Basic Mechanisms (4 credits)	MTD 208	Tool Design (4 credits)

**Apprenticeship component includes 600 hours concurrent with course work to qualify for Tool and Die Machinist Certificate.

Take individual courses to earn micro-credentials. Complete micro-credential courses towards earning Certificate. Complete all micro-credential courses towards earning Degree.

LCCC ELECTRO-MECHANICAL MANUFACTURING CERTIFICATES, CREDENTIALS AND MICRO-CREDENTIALS



*Career Enhancement
Option:*

MECHATRONICS 1 / AMIST LEVEL 1 NONCREDIT CERTIFICATE PROGRAM

CREDENTIAL
<ul style="list-style-type: none"> INDUSTRIAL MECHANICAL AMIST LEVEL 1 (Hydraulics, Pneumatics & Mechanical Drives included) PMMI: MECHANICAL COMPONENTS, FLUID POWER
HYDRAULICS MICRO-CREDENTIAL
PNEUMATICS MICRO-CREDENTIAL
MECHANICAL DRIVES MICRO-CREDENTIAL

CREDENTIAL
<ul style="list-style-type: none"> INDUSTRIAL ELECTRICAL AMIST LEVEL 1 (PLC'S included) PMMI: INTRO TO ELECTRICITY, INDUSTRIAL ELECTRICAL 2, PROGRAMMABLE LOGIC CONTROLLERS 1
INDUSTRIAL ELECTRICAL 1a MICRO-CREDENTIAL
INDUSTRIAL ELECTRICAL 1b MICRO-CREDENTIAL

CREDENTIAL
PROGRAMMABLE LOGIC CONTROLLERS (offered with or without pre-requisites) PMMI: PROGRAMMABLE LOGIC CONTROLLERS 1
ELECTRICAL SYSTEMS CONTROL MICRO-CREDENTIAL
ELECTRICAL MOTOR CONTROL 1 MICRO-CREDENTIAL

MECHATRONICS 1a PROGRESSIVE SKILL DEVELOPMENT MICRO-CREDENTIAL
MECHATRONICS 1b PROGRESSIVE SKILL DEVELOPMENT MICRO-CREDENTIAL
MECHATRONICS 1c PROGRESSIVE SKILL DEVELOPMENT MICRO-CREDENTIAL

*Career Enhancement
Option:*

MECHATRONICS 2 / AMIST LEVEL 2 NONCREDIT CERTIFICATE PROGRAM

CREDENTIAL
<ul style="list-style-type: none"> INDUSTRIAL MECHANICAL AMIST LEVEL 2 Inclusive of: Vibration Analysis, Laser Shaft & Central Lubrication PMMI: MECHANICAL COMPONENTS 2
VIBRATION ANALYSIS LASER SHAFT ALIGNMENT MICRO-CREDENTIAL
CENTRAL LUBRICATION MICRO-CREDENTIAL

CREDENTIAL
<ul style="list-style-type: none"> INDUSTRIAL ELECTRICAL AMIST LEVEL 2 (PLC'S included) PMMI: MOTOR AND MOTOR CONTROLS
INDUSTRIAL ELECTRICAL 2a MICRO-CREDENTIAL
INDUSTRIAL ELECTRICAL 2b MICRO-CREDENTIAL

CREDENTIAL
ADVANCED PROGRAMMABLE LOGIC CONTROLLERS PMMI: PROGRAMMABLE LOGIC CONTROLLERS 2

MECHATRONICS 2a PROGRESSIVE SKILL DEVELOPMENT MICRO-CREDENTIAL
MECHATRONICS 2b PROGRESSIVE SKILL DEVELOPMENT MICRO-CREDENTIAL
MECHATRONICS 2c PROGRESSIVE SKILL DEVELOPMENT MICRO-CREDENTIAL

Noncredit certificates articulate towards related associate degree programs.

■ Take individual courses to earn micro-credentials. ■ Complete all micro-credential courses towards earning Certificate(s).



LIST OF SOFT SKILL BADGES

Introductory Soft Skills Badges

Badge Title	Format	Topics
<ul style="list-style-type: none"> Skills for the Workplace 	Two half-days or 1 full-day	Basics of Communication Accountability Conflict Resolution Engagement

Supervisory/Leadership Badges

Badge Title	Format
<ul style="list-style-type: none"> Essential Skills of Communication Essential Skills of Leadership Coaching Job Skills Resolving Conflict Supporting Change Managing Complaints Improving Work Habits Effective Discipline Developing Performance Goals and Standards Providing Performance Feedback Delegating Communicating Up 	Each module is a half-day facilitator led workshop or can be done in a 2 hour online session.

Combining Badges to Certificates

By combining several badges that are similarly themed, students can obtain specialized certificates in organizational development. Topics include supervision, performance management, managing conflict, and handling change.

Essentials of Supervision and Team Leadership
<ul style="list-style-type: none"> Essential Skills of Leadership Essential Skills of Communication Improving Work Habits Communicating Up

Performance Management
<ul style="list-style-type: none"> Coaching Job Skills Developing Performance Goals and Standards Providing Performance Feedback Improving Work Habits

Managing Conflict
<ul style="list-style-type: none"> Essential Skills of Communicating Managing Complaints Effective Discipline Resolving Conflict

Handling Change
<ul style="list-style-type: none"> Essential Skills of Communicating Supporting Change Communicating Up Delegating