SKILLED TRADES INDUSTRIAL OCCUPATIONS TECHNOLOGY: AAS

Associate in Applied Science | 60 credit hours minimum

Area of Interest: Advanced Manufacturing, Industrial Occupations, and Transportation

Program Website (https://stlcc.edu/programs-academics/pathways/a-m-i-o-t/skilled-trades-industrial-occupations-technology/)

Academic Advising (https://stlcc.edu/admissions/advising/)

Program Description:

Skilled Trades Industrial Occupations Technology allows individuals to earn an associate degree tailored to their occupational/career needs. College credit for technical areas may be earned through established articulation agreements with apprenticeship programs recognized by the college or individualized programs of study developed in consultation with the Engineering and Technology department. In addition, on-the-job training and/or supervised work-based learning may be included in the student's degree program.

Location. This program is offered in its entirety at Florissant Valley.

Related Program. The Engineering Technology and Manufacturing Department offers a certificate in the following area:

> **Skilled Trades Industrial Occupations Technology, Certificate of Specialization (http://catalog.stlcc.edu/programs/skilled-trades-industrial-occupations-technology-certificate-specialization/)**

Cost of Attendance. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search/)**.

Program Career and Salary Information. Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/ (https://www.google.com/url/?q=https://scorecard.mo.gov/scorecard/&sa=D&ust=1555536894857000&usg=AFQjCNG1xf3E_i2lO96zEytILO-s5xaJCQ)**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, most recent cohorts for wage and completion data are six years prior to the current academic year. Time to complete a program of study varies depending on the number of credit hours students earn per semester.

Interested in this program? Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

At the completion of the program, students are expected to:

1. use appropriate oral, written, and technological strategies to facilitate workplace communication.
2. demonstrate knowledge of basic industrial technical processes and procedures, including, when appropriate, knowledge of legal standards that promote public health, safety, and general welfare.
3. solve technical workplace problems using best practices to meet industry regulations and requirements.

Missouri Civics Examination. Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

Program of Study

Code	Title	Credit Hours
General Education		
ENG 101	College Composition I (MOTR ENGL 100)	3
COM 101	Oral Communication I (MOTR COMM 100)	3
MTH 108	Elementary Applied Mathematics (or higher)	3
XXX xxx	Social & Behavioral Sciences: Civics Requirement (http://catalog.stlcc.edu/general-education/)	3
XXX xxx	Social and Behavioral Sciences MOTR Elective (http://catalog.stlcc.edu/general-education/)	3
Program Requirements		
Select one of the following tracks:		45
Apprenticeship Program Agreement		
Technical Electives		
Total Credit Hours		**60**

Tracks

Apprenticeship Program Agreement

Where St. Louis Community College has an agreement with an apprenticeship training program, students will receive credit as per the apprenticeship agreement. Depending on the credit awarded based on the articulation agreement, additional technical courses approved by the department may be required. Transcription of credit for apprenticeship training programs will be done as per the college procedures in place at that time.

Technical Electives

This option allows individuals to tailor their area of concentration based on the skilled trades by selecting course(s) from the department prefixes: AVI, BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, QC, SKT, TEL, WEL, and MGT – with at least 9 credit hours from one of the above prefixes. The individual's program of study must be developed in consultation with the Engineering and Technology department.

Full-Time Academic Plan

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Code	Title	Hours	Prerequisites	Milestones/Notes
First Year				
Fall				
ENG 101	College Composition I (MOTR ENGL 100)	3	Placement score or ENG 030 or ENG 070 with a grade of "C" or better or recommendation of department and Reading Proficiency or concurrent enrollment in RDG 079	ENG 101 may be taken in person or online.
XXX xxx	Technical Electives	3		Choose from AVI, BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, QC, SKT, TEL, and WEL prefixes.
XXX xxx	Technical Electives	3		Choose from AVI, BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, QC, SKT, TEL, and WEL prefixes.
XXX xxx	Technical Electives	3		Choose from AVI, BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, QC, SKT, TEL, and WEL prefixes.
XXX xxx	Technical Electives	3		Choose from AVI, BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, QC, SKT, TEL, and WEL prefixes.
	Credit Hours	**15**		
Spring				
MTH 108	Elementary Applied Mathematics (or higher)	3	Reading Proficiency	Higher level math course permitted; Course may be taken in person or online or substituted through Prior Learning Assessment for Math embedded in training.
XXX xxx	Social & Behavioral Sciences: Civics Requirement (http://catalog.stlcc.edu/general-education/)	3		
XXX xxx	Technical Electives	3		Choose from AVI, BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, QC, SKT, TEL, and WEL prefixes.
XXX xxx	Technical Electives	3		Choose from AVI, BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, QC, SKT, TEL, and WEL prefixes.
XXX xxx	Technical Electives	3		Choose from AVI, BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, QC, SKT, TEL, and WEL prefixes.
	Credit Hours	**15**		
Second Year				
Fall				
COM 101	Oral Communication I (MOTR COMM 100)	3	Concurrent enrollment in ENG 070 or Reading Proficiency	COM 101 may be taken in person or online
XXX xxx	Technical Electives	3		Choose from AVI, BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, QC, SKT, TEL, and WEL prefixes.
XXX xxx	Technical Electives	3		Choose from AVI, BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, QC, SKT, TEL, and WEL prefixes.

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XXX xxx	Technical Electives	3		Choose from AVI, BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, QC, SKT, TEL, and WEL prefixes.
	Credit Hours	**15**		
Spring				
XXX xxx	MOTR Social & Behavioral Sciences Elective (http://catalog.stlcc.edu/general-education/)	3		This may be taken in person or online. Apply for graduation.
XXX xxx	Technical Electives	3		Choose from AVI, BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, QC, SKT, TEL, and WEL prefixes.
XXX xxx	Technical Electives	3		Choose from AVI, BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, QC, SKT, TEL, and WEL prefixes.
XXX xxx	Technical Electives	3		Choose from AVI, BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, QC, SKT, TEL, and WEL prefixes.
XXX xxx	Technical Electives	3		Choose from AVI, BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, QC, SKT, TEL, and WEL prefixes.
	Credit Hours	**15**		
	Total Credit Hours	**60**		

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

Carpenter Training Council Academic Plan

Missouri Civics Examination. Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

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Code	Title	Hours	Prerequisites	Milestones/Notes
First Year				
Fall				
ENG 101	College Composition I (MOTR ENGL 100)	3	Placement score or ENG 030 or ENG 070 with a grade of "C" or better or recommendation of department and Reading Proficiency or concurrent enrollment in RDG 079	ENG 101 may be taken in person or online.
SKT 107	Carpenter Joint Apprenticeship Program: Introduction to Carpentry	2		
SKT 110	Carpenter Joint Apprenticeship Program: Interior Trim	3		

SKT 109	Carpenter Joint Apprenticeship Program: Concrete Form Building	3		
SKT 108	Carpenter Joint Apprenticeship Program: Workplace Learning I	2		
	Credit Hours	**13**		
Spring				
MTH 108	Elementary Applied Mathematics (or higher)	3	Reading Proficiency	Higher level math course permitted; Course may be taken in person or online or substituted through Prior Learning Assessment for Math embedded in training.
SKT 115	Carpenter Joint Apprenticeship Program: Health and Safety I	3		
SKT 116	Carpenter Joint Apprenticeship Program: Residential Framing	4		
SKT 113	Carpenter Joint Apprenticeship Program: Basic Blueprint Reading	2		
SKT 114	Carpenter Joint Apprenticeship Program: Workplace Learning II	4	SKT 108 with a minimum grade of "C"	
	Credit Hours	**16**		
Summer				
SKT 119	Carpenter Joint Apprenticeship Program: Workplace Learning III	4		
XXX xxx	Social & Behavioral Sciences: Civics Requirement (http://catalog.stlcc.edu/general-education/)	3		Civics may be taken in person or online.
	Credit Hours	**7**		
Second Year				
Fall				
COM 101	Oral Communication I (MOTR COMM 100)	3	Concurrent enrollment in ENG 070 or Reading Proficiency	COM 101 may be taken in person or online.
SKT 118	Carpenter Joint Apprenticeship Program: Millwright Basics	3		
SKT 117	Carpenter Joint Apprenticeship Program: Welding Basics	3		
SKT 122	Carpenter Joint Apprenticeship Training: Workplace Learning IV	4	SKT 119 with a minimum grade of "C"	
	Credit Hours	**13**		
Spring				
XXX xxx	MOTR Social & Behavioral Sciences Elective (http://catalog.stlcc.edu/general-education/)	3		This may be taken in person or online.
SKT 120	Carpenter Joint Apprenticeship Program: Health and Safety II	2		Apply for graduation.
SKT 121	Carpenter Joint Apprenticeship Program: Health and Safety III	2	SKT 120 with a minimum grade of "C"	
SKT 123	Carpenter Joint Apprenticeship Training: Workplace Learning V	4	SKT 122 with a minimum grade of "C"	
	Credit Hours	**11**		
	Total Credit Hours	**60**		

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Electrical Training Alliance Full-Time Academic Plan

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Code	Title	Hours	Prerequisites	Milestones/Notes
First Year				
Fall				
ENG 101	College Composition I (MOTR ENGL 100)	3	Placement score or ENG 030 or ENG 070 with a grade of "C" or better or recommendation of department and Reading Proficiency or concurrent enrollment in RDG 079	ENG 101 may be taken in person or online.
SKT 106	Electrical Training Alliance: Introduction to Electrical Professions	2		
SKT 111	Electrical Training Alliance: Electrical Conduit Fabrication	2		
SKT 112	Electrical Training Alliance: Workplace Learning I	6		
	Credit Hours	**13**		
Spring				
MTH 108	Elementary Applied Mathematics (or higher)	3	Reading Proficiency	Higher level math course permitted; Course may be taken in person or online or substituted through Prior Learning Assessment for Math embedded in training.
SKT 136	Electrical Training Alliance: Electrical Training Code and Practices I	2		
SKT 130	Electrical Training Alliance: Direct Current Theory	3		
SKT 131	Electrical Training Alliance: Workplace Learning II	7	SKT 112 with a minimum grade of "C"	
	Credit Hours	**15**		
Summer				
SKT 135	Electrical Training Alliance: Electrical Blueprint Reading	2		
SKT 138	Electrical Training Alliance: AC Systems and Theory	3		
XXX xxx	Social & Behavioral Sciences: Civics Requirement (http://catalog.stlcc.edu/general-education/)	3		This may be taken in person or online.
	Credit Hours	**8**		

Second Year				
Fall				
COM 101	Oral Communication I (MOTR COMM 100)	3	Concurrent enrollment in ENG 070 or Reading Proficiency	COM 101 may be taken in person or online.
SKT 137	Electrical Training Alliance: Electrical Code and Practices II	2		
SKT 132	Electrical Training Alliance: Workplace Learning III	7	SKT 131 with a minimum grade of "C"	
	Credit Hours	**12**		
Spring				
SKT 134	Electrical Training Alliance: Transformers	2		Apply for graduation.
SKT 133	Electrical Training Alliance: Workplace Learning IV	7	SKT 132 with a minimum grade of "C"	
XXX xxx	MOTR Social & Behavioral Sciences Elective (http://catalog.stlcc.edu/general-education/)	3		This may be taken in person or online.
	Credit Hours	**12**		
	Total Credit Hours	**60**		

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