



Commercial and Residential Wiring Diploma - 68 credits

Program Area: Electrician (Fall 2021)

*****REMEMBER TO REGISTER EARLY*****

THE ELECTRONIC PROGRAM APPLICATION MAY BE FOUND ON THE LSC WEBSITE.
APPLICATION DATES TO APPLY ARE JANUARY 31ST - FEBRUARY 28TH ANNUALLY.

Program Description

The Commercial and Residential Wiring diploma program teaches students to install, operate, and repair electrical systems. Students also learn to install wiring in buildings and to make power connections from an outside source. Training in the program includes simulated residential, commercial, and industrial settings. Also covered will be DC and AC motor controls, electrical distribution panels, and testing equipment.

Students become familiar with digital applications, analog solid state, and programmable controllers that are used within industrial settings throughout the nation.

This diploma transfers seamlessly into an AAS degree (82 credits) in Commercial and Residential Wiring.

Program Outcomes

- Have a working knowledge and understanding of the National Electrical Code (NEC)
- Have a working knowledge of safety issues relating to the electrical industry and workplace
- Understand and be able to perform tasks relating to residential wiring
- Understand and be able to perform tasks relating to commercial wiring
- Understand and be able to perform tasks relating to industrial wiring

Qualified applicants should be aware that program class sizes are limited, which may delay acceptance into the program.

*Indicates courses required to be completed or currently in-progress at time of application in order to be considered for acceptance.

Pre-Program Courses

Number	Name	Credits	Term
ELTN 1406*	DC Electricity	4	
ELTN 1408*	AC Electricity	4	
ELTN 1412*	Digital Electronics	2	
ELTN 1422*	Media and Cabling	2	
ELTN 1500*	Practical PC Maintenance	2	
ELTN 1442*	Motors and Generators	6	
ELTN 1470*	Systematic Troubleshooting	1	
ELTN 1635*	PLT Control Lab	3	
ELTN 2442*	Automation Controllers	3	

Required Courses

Number	Name	Credits	Term
ELEC 2401	Residential Wiring	1	
ELEC 2402	Residential Wiring Lab	3	
ELEC 2405	Electrical Blueprint Reading	2	
ELEC 2421	Commercial Wiring I	1	
ELEC 2422	Commercial Wiring I Lab	3	
ELEC 2431	Motor Control	2	
ELEC 2432	Motor Control Lab	1	
ELEC 2440	National Electrical Code I	2	
ELTN 2430	Introduction to Instrumentation	3	
ELEC 2451	Commercial Wiring II	1	
ELEC 2452	Commercial Wiring II Lab	3	
ELEC 2461	Electrical Troubleshooting	2	
ELEC 2471	Industrial Wiring	2	
ELEC 2472	Industrial Wiring Lab	2	
ELEC 2501	Electric Controls	2	
ELEC 2502	Electrics Controls Lab	1	
ELEC 2510	National Electrical Code II	2	
ELTN 2440	Motor Speed Controllers	3	
	Choose 5 credits from the following		
	<ul style="list-style-type: none"> • Any ELTN or ELEC courses not listed above • ALTH 1435: American Red Cross Community First Aid and CPR (1 cr) • COMM 1601: Interviewing Procedure and Practice (1 cr) 	5	

Total Credits

68



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Pre-program Requirements

Successful entry into this program requires a specific level of skill in the areas of English, mathematics, and reading. Program entry will depend, in part, on meeting the prerequisites listed below:

English/Reading:

- Eligible for ENGL 1106 - College Composition I, or
- Completion of ENGL/READ 0950/0955 (or equivalent or higher). ENGL/READ 0950/0955 may be taken concurrently with Semester I coursework.

Mathematics:

- Eligible for MATH 0970 - Intermediate Algebra, or
- Completion of MATH 0950/0955 (or equivalent or higher). MATH 0950/0955 may be taken concurrently with Semester I coursework.
- With instructor permission, concurrent enrollment in MATH 1115.

There are other ways to qualify. Visit [Course Placement](http://lsc.edu/course-placement) (lsc.edu/course-placement) to find out more.

For interpretation of test results and selection of appropriate coursework;
or general information about the program, admissions, financial aid, and getting started at LSC,
contact the [professional advising team](mailto:advising@lsc.edu) (advising@lsc.edu) at 218-733-7601

For more information about the Commercial and Residential Wiring Diploma including course descriptions, course prerequisites, the program report, and potential career opportunities, see the [program website](https://degrees.lsc.edu/electrical-wiring/) (https://degrees.lsc.edu/electrical-wiring/)

or

Contact Faculty Advisor, [Jerry Erickson](mailto:jerry.erickson@lsc.edu) (jerry.erickson@lsc.edu) at 218-733-6955



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