



Wayne
County
Community
College
District

Light Rail Engineering Technology: Certificate

PAY

The median annual wage for all railroad occupations was \$61,480 in May 2018.

JOB OUTLOOK

Employment of railroad workers is projected to decline from 2018 to 2028. Although demand for rail transportation may grow, an increase in productivity may hold employment growth in rail occupations.

However, job opportunities for these occupations are expected to be favorable in the Detroit Metropolitan area as the light rail system becomes operational.

Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, December 11, 2019, Railroad Occupations, on the Internet at <http://www.bls.gov/ooh/transportation-and-material-moving/railroad-occupations.htm>

ABOUT THE PROGRAM

The Light Rail Engineering Technology College Certificate is designed to prepare students for employment in the expanding light rail industry. This program will also prepare the student to work within the expanding passenger and freight railroad industry. Railroads employ a substantial workforce to service, maintain, operate and manage their transportation networks. While railroads are required by federal law to train their own employees, the basic safety concerns, rules, orders and regulations are all standard in the industry. Students in this program will be exposed to these issues and become equipped to pass the standardized rail examinations required by each rail industry employer. Students will find employment with freight railroads, and passenger or light rail operations in railcar or track maintenance, dispatch, signaling, and many other related positions.



WHAT DO LIGHT RAILROAD TRANSPORTATION WORKERS DO?

Passenger railroads deliver millions of passengers and long-distance commuters to destinations throughout the country. Subways and light-rail systems move passengers within metropolitan areas and their surrounding suburbs. All of these modes of rail transportation require employees to operate, oversee, and assist in rail operations.

WHERE DO THEY WORK?

Rail transportation workers are employed by three types of railroads: freight, passenger, and urban transit (subway and light rail). Rail transportation workers not only work on trains, but also can be found working in rail yards where railcars are inspected, repaired, coupled, and uncoupled.

**Wayne County Community College District...
Jobs for Today, Jobs for the Future!**

**FOR MORE INFORMATION, CALL 313-496-2600
OR VISIT OUR WEBSITE AT WWW.WCCCD.EDU**



Recommended Sequence of Courses

Light Rail Engineering Technology: College Certificate

CR. No.	COURSE TITLE	CREDITS
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SEMESTER 1

ENG 119	English I	3
EE 101	Circuit Analysis	4
EE 107	Math for E/E I	4
LRT 101	Rail Transportation and Railroad Careers	3

SEMESTER TOTAL14

SEMESTER 2

ENG 134	Technical Communications	3
EE 102	Circuit Analysis II	4
EE 115	Math for E/E II	4
LRT 102	Railroad Rules, Regulations, Standards and Practice	3

SEMESTER TOTAL14

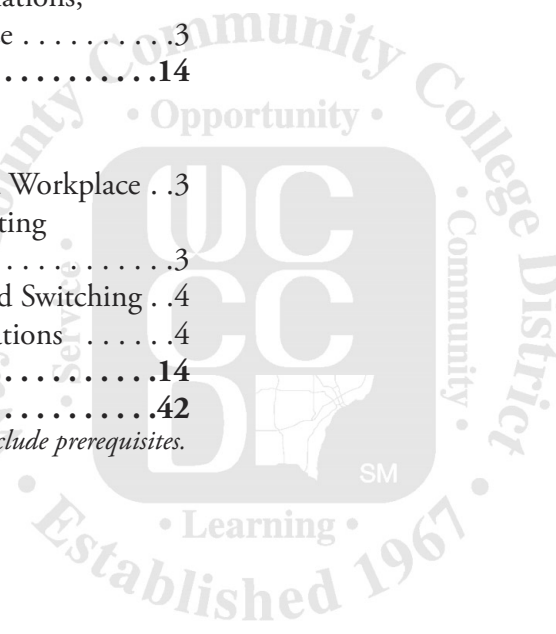
SEMESTER 3

LRT 201	Safety in the Railroad Workplace . .	3
LRT 202	Reading and Interpreting Railroad Diagrams	3
LRT 240	Railroad Signaling and Switching .	4
LRT 242	Railroad Communications	4

SEMESTER TOTAL14

CERTIFICATE TOTAL42

Note: Certificate total hours may not include prerequisites.



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