

# RAIL VEHICLE MAINTENANCE



**Pathway:** Advanced Transportation & Manufacturing  
**Chair:** Jess Guerra, Room OH/F-225H  
 (213) 763-3919, GuerraJ@lattc.edu

Award Title	Award Type	GE Units	Required Course Units	Major Elective Units	Major Units
Rail Vehicle Maintenance	AS	21	40	-	40
Rail Vehicle Maintenance	C		40	-	40

At least 60 degree applicable units are required to earn an Associate degree.

## PROGRAM OVERVIEW

For many of us, it is obvious how the US transportation system affects our daily lives as we move from one place to another and rely on the system to transport items we purchase and use on a daily basis—particularly through rail transportation. In the Los Angeles region, rail transportation supports the largest container port complex in the U.S., 9th largest in the world, and the 3rd largest transit agency in the U.S. where nearly 1/5th of transit trips in the region are by commuter, light, or heavy rail. A career in rail transportation, as a rail mechanic, provides an opportunity to work within large rail companies and transportation agencies providing competitive wages, health and retirement benefits, and opportunities for career advancement. Employment at these companies/agencies often requires starting within entry positions and advancing through promotional opportunities. Because nearly half of the workforce will be eligible to retire within the next 10 years, employment outlook and career advance opportunities are promising. Program completers will also have the requisite competencies to be employed as Installation, Maintenance, and Repair Worker Helpers and Machinery Maintenance Workers that also provide many employment opportunities.

## PROGRAM LEARNING OUTCOMES (PLOs)

Upon completion of the **Degree/Certificate** program, students are able to:

1. Identify and explain the operation of rail vehicles and systems along with related subsystems and related industry standards.
2. Diagnose and repair rail vehicles and systems using various manufacturer diagnostic software, tools, and shop equipment in accordance with industry standards.

You can enroll in these classes by logging on to the Student Information System at <http://college.lattc.edu/sic/sis/>

*For additional information consult a LATTC college counselor.*

## RAIL VEHICLE MAINTENANCE

### Associate in Science Degree

Major Units: 40

Requirements for the Associate of Science degree in Rail Vehicle Maintenance may be met by completing 40 units of Required Courses with a “C” or better along with General Education units. Information on the General Education unit requirements may be found in the catalog under Graduation Requirements.

## REQUIRED COURSES

SEMESTER I		UNITS
DIESLTK 401	Rail System Overview, Safety, Tools, and Mechanical Principles	10
SEMESTER II		UNITS
DIESLTK 402	Rail Electrical and Electronic Principles	10
SEMESTER III		UNITS
DIESLTK 403	Rail Vehicle Pneumatic & Hydraulic Controls, HVAC & Car Body	10
SEMESTER IV		UNITS
DIESLTK 404	Rail Diesel Engine Fundamentals and Rail Accessory/Support Systems	10

## RAIL VEHICLE MAINTENANCE

### Certificate of Achievement

Major Units: 40

A Certificate of Achievement in Rail Vehicle Maintenance may be earned by completing 40 units of Required Courses listed under the Associates degree in Rail Vehicle Maintenance with a “C” or better in each course.

#### NOTES:

- Students are required to provide basic hand tools, Transportation Technology uniform and personal safety equipment.
- These programs are currently pending approval for federal financial aid; please see a counselor for assistance.

## USEFUL LATTTC LINKS:

**College Catalog:** <http://college.lattc.edu/catalog/>  
**Financial Aid Office:** <http://college.lattc.edu/financialaid/>  
**Counseling Department:** <http://college.lattc.edu/counseling/>  
**General Education Information:** <http://college.lattc.edu/catalog>  
**Advanced Transportation & Manufacturing Pathway:** <http://pathways.lattc.edu/atm>