

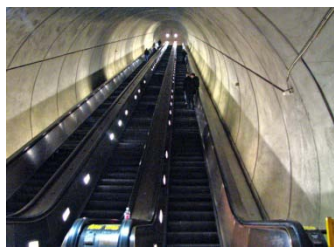


Transit Core Competencies Curriculum (TC3)

Module 1: Public Transportation Industry Overview

PARTICIPANT GUIDE

 **TRANSPORTATION LEARNING CENTER**



About the Developer and Development Process:

Development of this Transit Core Competencies Curriculum (TC3) was made possible by funding from a Cooperative Agreement from the Federal Transit Administration.

TC3 and associated courseware, including the Student Coursebooks, Instructor Guides and Power Point Presentations, have been developed by the Transportation Learning Center through a collaboration between Center staff and subject matter experts (SMEs). The SMEs come from public transportation agencies and unions committed to developing and strengthening pathways into frontline work in transit and transportation for young people and adults who live in the communities transit serves. The SMEs who were members of the Center's TC3 courseware development working groups are listed below:

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This module is one part of a broader series of modules meant to orient and engage potential public transportation maintenance employees to the industry, job opportunities and related responsibilities. A complete list of the modules contained within this series is below:

1. Public Transportation Industry Overview
2. Workplace Relations
3. Safety and Security
4. Public Transportation Technology Overview
5. Basic Mechanical Theory, Understanding, Application
6. General Electrical Theory, Understanding, Application
7. Public Transportation Maintenance Overview
8. Tools and Material Handling
9. Public Transportation Vehicle Maintenance
10. Facilities and Support Equipment Maintenance

The Transportation Learning Center is a nonprofit organization dedicated to improving public transportation at the national level and within communities. To accomplish this mission, the Center builds labor-management training partnerships that improve organizational performance, expand workforce knowledge, skills and abilities and promote career pathways and career advancement. For more information about the Transportation Learning Center, go to www.transportcenter.org or www.transittraining.net.

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MODULE 1

PUBLIC TRANSPORTATION INDUSTRY OVERVIEW

Outline

- 1- 1 Overview
- 1- 2 Public Transportation Benefits Our Communities
- 1- 3 Career Opportunities
- 1- 4 Technology in Public Transportation
- 1- 5 Summary

Purpose and Objectives

The purpose of this module is to provide participants with an overview of the nature, functions and benefits of the public transportation industry, with a focus on opportunities and careers in public transportation. Following the completion of this module, the participant should be able to complete the objectives with an accuracy of 75% or greater:

- Define public transportation
- List and describe public transportation services, including modes of transportation
- Describe briefly the basic evolution of public transportation
- Describe briefly how public transportation is funded
- Define transit and essential transit terminology
- List and describe the benefits provided by public transportation
- List basic statistics on public transportation use
- Provide examples of the impact when transit fails
- List broad categories of employment in public transportation
- Describe the role of labor unions in transit
- Provide examples of career ladders in transit
- List and describe the current uses and roles of technology in transit
- Describe the green nature of transit and list and describe related technologies
- List and describe future technologies being developed in the industry

Key Terms

- Bus Rapid Transit (BRT)
- Cable Car
- Commuter Rail
- Electronic Diagnostic Tools
- Employee Benefits
- Fiber Optics
- Global Positioning System
- Green Technology
- Heavy Rail
- High-Speed Rail
- Light Rail
- Maglev
- Mode of Transportation
- Motor Bus
- Paratransit
- Positive Train Control
- Public Transportation
- Regenerative Braking
- Transit
- Trolley
- Vacuum Tube Transport