

Bus Maintenance Technician Program Outline

Basic Data

Program Name: Bus Maintenance Technician

Program Award Level: Diploma

Program Credit Hours: 54 Credit Hours

Program Length: 3 Terms

CIP Code: 47.0613

Description:

The Bus Maintenance Technician Diploma program is a sequence of courses designed to prepare students for careers in the transit bus service and repair profession. Learning opportunities enable students to develop academic, technical and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes a combination of bus mechanical theory and practical application necessary for successful employment. Program graduates receive a Bus Maintenance Technician diploma that qualifies them as entry-level technicians.

Occupational Analysis

Duty Description

1 Complete required repair documentation

Task Order	Task Description
1	Verify complaint or problem
2	Diagnose the concern
3	Prepare repair order

2 Perform preventative maintenance procedures

Task Order	Task Description
1	Verify scheduled maintenance items for a particular bus
2	Perform maintenance tasks as required
3	Document any finding of other required work on the repair order

3 Maintain and/or repair major systems on transit buses

Task Order	Task Description
1	Road test vehicle or performance test system
2	Diagnose and repair any issues as authorized
3	Verify repairs have eliminated concern

4 Maintain and/or repair auxiliary systems on transit buses

Task Order	Task Description
1	Road test vehicle or performance test affected system
2	Diagnose and repair any issues as authorized
3	Verify repairs have eliminated concern

5 Pursue professional development

Task Order	Task Description
1	Set annual industry update goals
2	Attend training sessions as necessary to meet goals
3	Document training for employer
4	Pursue ASE or company specific transit bus repair certification

Program Outcomes

Order Description

- 1 Graduate should follow a methodical diagnostic process while performing all repairs in a service shop.
- 2 Graduate should display competence in performing basic maintenance procedures for all buses serviced in the shop.
- 3 Graduate should display ability to seek and use technical information to diagnose bus problems and concerns.
- 4 Graduate should communicate knowledgeably and professionally with peers and managers regarding all repairs and display appropriate industry work ethics.
- 5 Graduate should pursue update training and certification to maintain current knowledge on transit bus systems and equipment.

Program Curriculum

Course Number	Courses	Credits
General Studies Courses		
MATH 1012	Foundations of Mathematics	3
ENGL 1010	Fundamentals of English I	3
EMPL 1000	Interpersonal Relations & Professional Development	2
Technical Courses		
COMP 1000	Introduction to Computers	3
DIET 1000	Introduction to Diesel Technology, Tools, and Safety	3
DIET 1010	Diesel ELCT and Electronic System	7
DIET 1020	Preventive Maintenance	5
DIET 1040	Diesel Truck and Heavy Equipment HVAC	3
DIET 2000	Truck Steering and Suspension System	4
DIET 2010	Truck Brake Systems	4
DIET 2020	Truck Drive Trains	6
IDSY 1120	Basic Industrial PLC's	5
TRST 1000	Transit Industry Fundamentals	1
TRST 1020	Transit Bus Body Systems	4
TRST 1010	Transit Bus Engines	4
REQUIRED CREDIT HOURS:		57