



# PennTRAIN

Pennsylvania Training, Resource, and Information Network

## SEPTA / PPTA Entry Level Mechanic Course

April 15 to May 3, 2019

Monday to Friday – 6 AM to 2 PM

SEPTA Training, 200 West Wyoming Avenue, Philadelphia, PA 19140

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**Point of Contact:** John Miller, Chief Technical Instructor-Bus, SEPTA Training and Tech Support

### Course Outline

#### ➤ **Tool / Orientation**

- Torque / torque wrenches
- Decimal & Fraction Review
- Micrometer reading

#### ➤ **Bus Pneumatics / Brake Reline / ABS**

- Foundation Brake
  - Brake chambers
  - Slack adjusters
  - S-cams
  - Brake shoes / drums
- Disc Brake
  - Caliper / Actuator
  - Rotors
  - Pads
- Air Brake valves
- Air Brake schematic reading
- ABS/ATC
  - WABCO ABS/ATC Theory of Operation
  - Bendix ABS/ATC Theory of Operation
  - Hands-on troubleshooting using laptop computer on brake board and bus

#### ➤ **Bus Electrical**

- Intro to DMM's
- Ohm's Law / Watt's Law
- Battery service/testing
- Series & Parallel circuits
- Hands-on circuit building
- Voltage Drop testing
- Starting / Charging systems
- Schematic reading
- Circuit Troubleshooting
- Multiplex system familiarization
- Hands-on troubleshooting using training simulators & live bus

#### ➤ **Diesel Engine**

- Theory of Operation
- Maintenance
- Fuel Systems

#### ➤ **Bus Doors**

- Entrance & exit door adjustments
- Vapor door motor
  - Theory of operation
  - Adjustments (Open speed, closing speed, Open cushion)
  - Safety circuits (Sensitive edge, Stop/Reverse, etc)



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**Cost:** No cost. Attendee responsible for all meals, lodging, and travel expenses.

**Lodging:** [Four Points by Sheraton Philadelphia Northeast](#) (9461 Roosevelt Boulevard, Philadelphia, PA, 19114). Room block is available for Sunday through Friday during each week of the training at the government rate of \$115/night plus taxes. Contact Bessie Valenti, Senior Sales Manager for reservations ([bvalenti@fpphiladelphia.com](mailto:bvalenti@fpphiladelphia.com) or 267-350-6016. Rooms will be released on March 14 (or when sold out).

**Attire:** Proper mechanic clothing and steel toed shoes required

**Available Seats:** 4

### Attendee Registration:

Submit to Sara Bowden, PennTRAIN Program Coordinator

Email: [sara@ppta.net](mailto:sara@ppta.net) Fax: 717-234-7176 Mail: 115 Pine Street, Harrisburg, PA 17101

Organization Name: \_\_\_\_\_

Attendee Name: \_\_\_\_\_

Attendee Title: \_\_\_\_\_

Attendee Email Address: \_\_\_\_\_

Attendee Phone Number: \_\_\_\_\_

Organization Contact Name: \_\_\_\_\_

Organization Contact Email Address: \_\_\_\_\_