



**SEPTA / PPTA Entry Level Mechanic Course**  
**July 16 to August 3, 2018**  
**Monday to Friday – 6 AM to 2 PM**  
SEPTA Training, 200 West Wyoming Avenue, Philadelphia, PA 19140

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

**Attendees:** Four (4) attendees maximum. Seats will be awarded on a first-come, first-served basis

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

**Expenses:** Attendee responsible for all meals, lodging, and travel expenses

**Lodging:** Attendee responsible for all lodging and travel expenses. PPTA has confirmed the [Four Points by Sheraton Philadelphia Northeast](#) (9461 Roosevelt Boulevard, Philadelphia, PA, 19114) offers a government rate of \$115/night. Contact Bessie Valenti, Senior Sales Manager, at 267-350-6016 or [bvalenti@fpphiladelphia.com](mailto:bvalenti@fpphiladelphia.com) to book directly.

**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)

**Registration Form on Page 2 →**



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**Registration:**

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Organization Name

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Attendee Name

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Attendee Title

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Attendee Email Address

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Attendee Phone Number

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Organization Street Address

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City, State, Zip

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Organization Contact Name

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Organization Contact Email Address

**Submit to Sara Bowden, PennTRAIN Program Coordinator**

Email: [sara@ppta.net](mailto:sara@ppta.net) Fax: 717-234-7176 Mail: 600 N 3<sup>rd</sup> St, 4<sup>th</sup> Floor, Harrisburg, PA 17101