

# Certification Requirements

## Assistant Engineer

The individual must show good train operation and safety. Must show attentiveness to the conductor of the train. Must be comfortable with whistle/horn /bell operation and usage. Understand basic turnout control.

Having the Assistant Engineer certification qualifies an individual to run trains on the layout without direct supervision.

### Requirements:

- Know and demonstrate proper use the throttle including:
  - Installing the battery in the throttle correctly.
  - Know and demonstrate functions on the throttle:
    - Turn on/off lights.
    - Blow the horn.
    - Ring the bell.
    - Setting direction and stopping.
- Know basic DCC concepts:
  - Locomotive addresses.
  - Acquiring and dispatching locomotives.
  - Releasing locomotives.
  - Reacquire loco net.
- Demonstrate proper operation of locomotive horn signals for:
  - Grade crossing.
  - Forward.
  - Reverse.
  - Stop.
- Know and demonstrate operational locomotive speeds for:
  - Mainline.
  - Switching.
- Know and demonstrate a change in direction.
- Know the proper handling of rolling stock including:
  - Rerailing.
  - Picking up and moving rolling stock.
- Demonstrate knowledge of the territory.
- Demonstrate general rules of the road including:
  - Approaching trains.
  - Leaving switches on the mainline lined for the mainline.
- Physical Requirements.
  - Must be tall enough to uncouple and reraill cars.