LOCAL 60

CONDUCTOR CERTIFICATION
PHYSICAL CHARACTERISTICS
STUDY GUIDE

MORRIS AND ESSEX

PRESENTED BY

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This study guide contains helpful information for those conductors who will be re-certifying on the Morris and Essex lines. The M&E exam is divided into 5 sections

SECTION A - HOBOKEN TO WEST END
SECTION B - WEST END TO SUMMIT
SECTION C - SUMMIT TO DOVER
SECTION D - GLADSTONE BRANCH
SECTION E - DOVER TO HACKETTSTOWN
SECTION A - HOBOKEN TO WEST END

1) Main Track Rules
Study the NJT Special Instructions (Main track rules in effect) this accounts for a majority of the questions on the exam.

2) Dispatcher Control
Terminal to Lower Hack (Terminal Dspr.)

3) Maximum Authorized speeds
Depot tracks (40 mph)
West end of the depot & Eastward home signal of terminal (15 mph)
Bergen Tunnels (30 mph)

4) ABS Signals in Bergen Tunnels
Study SI ME 277-1 pertaining to ABS signals in the Bergen tunnels with High signal aspects.

5) Horn Signals Hoboken
Study SI ME 19-1(A) (Approaching car wash facility)

6) Depot Tracks with Both side access
Study the Depot Tracks that have platforms on both sides of the equipment.

7) Hill Yard/ Catenary
Study SI ME 1008-1 (Note 2) pertaining to track 122 in Hoboken is NOT equipped with catenary.

8) Hoboken Terminal/Track 1 Capacity
Track 1 in Hoboken Terminal capacity.
9) Voltage
Study SI ME 1008-1 (A) pertaining to the catenary voltage from Hoboken to Dover is 25Kv AC.

10) Hoboken terminal track access
Tracks (12) & (13) are the only tracks that can access 1 main and 4 main in terminal and east end. (See attached map)

11) Interlocking limits of Hoboken Terminal
Study SI ME 613-1 pertaining to the interlocking limits of terminal tower extends to the east end of the train shed tracks.

12) Stub/ Tail track
The stub/tail track location is south of 4 MAIN. (See attached map)

13) Hoboken Yards
See the attached map for the locations of these yards.
  Hill (between 2main & 4 main)
  Days (North of the E-route)
  Pullman (South of I22, 6main, 4main).
SECTION B - WEST END TO SUMMIT

1) Main Track Rules
Study the NJT Special Instructions (Main track rules in effect) this accounts for a majority of the questions on the exam.

2) Maximum Authorized speeds
Electrical Equipment MP 2.7 & MP 6.6

3) Phase Gaps
MP 4.7 Meadows
MP 4.9 Waterfront (Single track)
MP 5.2 Kearny Jct (tracks 5 & 6)
MP 14.5 Maplewood

4) Sanfords Interlocking
Study Sanfords interlocking (see attached map) and what crossover it contains.

5) Summit station main tracks
Study summit station main track configuration. (See attached map)

6) Departing station near an interlocking
Study NJT SI 91-1 for M & E stations near interlockings and procedures.
Broad st. (east)
Millburn (east)
Summit

SECTION C - SUMMIT TO DOVER
1) Main Track Rules
Study the NJT Special Instructions (Main track rules in effect) this accounts for a majority of the questions on the exam.

2) Maximum Authorized speeds
MP 26.2 & MP 26.5 (50mph)
MP 34.4D & MP 34.8D (Powder Mill Curve) (40mph)
MP 35.9D & MP 34.1 (Denville Curve) (30mph)

3) Summit Yard Handbrake
Study SI ME 109 pertaining to handbrake application in summit yard.

4) Electric Lock Switch
Study the electric lock switch located near Drew interlocking on track 2. (Madison Team Track) (See attached Map)

6) Phase Gap
MP 30.7 Baker

7) Train Inspection Detectors
MP 35.0 (west of Denville)

8) Station stops across tracks
Study SI ME 121(B) pertaining to stations where rule 121-C is in effect. (Mount Tabor)

9) Departing station near an interlocking
Study NJT SI 91-1 for M & E stations near interlockings and procedures. Morristown (west)
Denville (west)
Dover
9) **Duplicate Mileposts**  
*Study the station page (note 1) pertaining to the duplicate mileposts.*

10) **Dover Yard**  
*Study the Dover yard configuration (see attached map) as well as the main tracks adjacent to the yard.*

11) **Dover Running Track**  
*Study SI ME 97 pertaining o the Dover Running track's speed, direction, and control.*

12) **Dover Yard - Tracks N-1 and N-4**  
*Study SI ME 98-6 pertaining to the speed and location of these pedestal tracks in Dover yard.*

13) **AC Motor Stop Sign**  
*Study SI ME 1008-1 (AC electrical operation) (Note 1) pertaining to the location of the AC motor stop sign west of Dover.*

### SECTION D - GALDSTONE BRANCH
1) **Main Track Rules**  
*Study the NJT Special Instructions (Main track rules in effect) this accounts for a majority of the questions on the exam.*

2) **Maximum Authorized speeds**  
*Main Track (60mph)*  
*Sidings (15mph)*

3) **Speed Restrictions**  
*MP 22.4 & MP 22.9 (45mph)*  
*MP 24.6 & MP 25.0 (35mph)*

4) **Station stops across tracks**  
*Study SI ME I21(B) pertaining to stations where rule I21-C is in effect.*  
*Murray Hill*  
*Stirling*  
*Bernardsville*

5) **Departing station near an interlocking**  
*Study NJT SI 91-1 for GS stations near interlockings and procedures.*  
*Murray Hill*  
*Stirling*  
*Bernardsville*  
*Far Hills (west)*

6) **Gladstone Yard**  
*Study the Gladstone Yard configuration. (See attached map)*  
*Also study SI GS 104 (B) pertaining to lining switches in the yard.*

7) **Phase Gaps**  
*MP 29 Stirling*
8) Train Inspection Detector  
MP 27.8 Gillette

9) Bernardsville/Depot place crossing  
Study SI GS 138 (Note D) pertaining to procedures for Depot place road crossing.

10) Gladstone station Track  
Study SI GS 98 pertaining to the Gladstone station track.

SECTION E - DOVER TO HACKETTSTOWN

1) Main Track Rules  
Study the NJT Special Instructions (Main track rules in effect) this accounts for a majority of the questions on the exam.

2) Maximum Authorized speeds  
MP 48.6 & MP 49.8 (30mph)

3) Hand Crossover  
Study the location of the hand crossover at Chester Jct. (MP 41.3)

4) Station stops across tracks  
Study SI ME 121(B) pertaining to stations where rule 121-C is in effect.  
Lake Hopatcong

5) Departing station near an interlocking  
Study NJT SI 91-1 for the M & E stations near interlockings and procedures.  
Lake Hopatcong (east)
Mt. Olive (east)
Hackettstown (east)

6) Port Morris yard
Study Port Morris yard configuration. (see attached map)

7) Roxbury - Reversing at MP 47
Study SI ME 501 pertaining to changing ends on the single track west of Roxbury.

8) Cp Olive and CP Wharton
Study the locations of the signals at these two Controlpoints. (See attached Map.)

9) Station Track
Study SI ME 98-4 pertaining to the station track between Cook and Bill.