Section A: Railroad Equipment.
Category 1 - Master Builder - Motive Power
☑ Completed Statement of Qualifications
☑ Build 3 Scale Models – all 3 with 87½ merit award points - All super-detailed.
   ☐ Model 1 – Scratchbuilt - __________________________
   ☐ Model 2 - __________________________
   ☐ Model 3 - __________________________

Category 2 - Master Builder - Cars
☑ Completed Statement of Qualifications
☑ Build 8 scale models - 4 types - 1 passenger - 4 with 87 1/2 merit points - At least 4 built from scratch - all others super-detailed.
   ☐ Model 1 - type: Passenger ☐ Points? ☐ Scratch? ☐ SOQ
   ☐ Model 2 - type: _______ ☐ Points? ☐ Scratch? ☐ SOQ
   ☐ Model 3 - type: _______ ☐ Points? ☐ Scratch? ☐ SOQ
   ☐ Model 4 - type: _______ ☐ Points? ☐ Scratch? ☐ SOQ
   ☐ Model 5 - type: _______ ☐ Points? ☐ Scratch? ☐ SOQ
   ☐ Model 6 - type: _______ ☐ Points? ☐ Scratch? ☐ SOQ
   ☐ Model 7 - type: _______ ☐ Points? ☐ Scratch? ☐ SOQ
   ☐ Model 8 - type: _______ ☐ Points? ☐ Scratch? ☐ SOQ

Section B: Railroad Setting
Category 3 - Master Builder – Structures
☑ Completed Statement of Qualifications
☑ Build 12 Scale Models - 6 types - 1 bridge/trestle – 6 with 87 ½ merit award points - at least 6 built from scratch - all others super-detailed.
   ☐ Model 01 - type: Bridge - Trestle ☐ Points? ☐ Scratch? ☐ SOQ
   ☐ Model 02 - type: _______ ☐ Points? ☐ Scratch? ☐ SOQ
   ☐ Model 03 - type: _______ ☐ Points? ☐ Scratch? ☐ SOQ
   ☐ Model 04 - type: _______ ☐ Points? ☐ Scratch? ☐ SOQ
   ☐ Model 05 - type: _______ ☐ Points? ☐ Scratch? ☐ SOQ
   ☐ Model 06 - type: _______ ☐ Points? ☐ Scratch? ☐ SOQ
   ☐ Model 07 - type: _______ ☐ Points? ☐ Scratch? ☐ SOQ
   ☐ Model 08 - type: _______ ☐ Points? ☐ Scratch? ☐ SOQ
   ☐ Model 09 - type: _______ ☐ Points? ☐ Scratch? ☐ SOQ
   ☐ Model 10 - type: _______ ☐ Points? ☐ Scratch? ☐ SOQ
Category 4 - Master Builder – Scenery
☐ Completed Statement of Qualifications
☐ Completed section of model railroad - size based on model scale - documentation
☐ O - 60 Sq. Ft, S - 45 Sq. Ft, HO - 32 Sq. Ft, N - 18 Sq. Ft
☐ Terrain
☐ Structures
☐ Background
☐ Lighting
☐ Photos and written description
☐ Methods and Materials
☐ 87 1/2 Merit Points

Category 4A - Master Builder - Prototype Models
☐ Completed Statement of Qualifications
☐ Model Scene – 87 1/2 merit points - documentation - 6 scale models – 2 built from scratch
☐ Model 1 - type: ____________ ☐ Points? ☐ Scratch? ☐ SOQ
☐ Model 2 - type: ____________ ☐ Points? ☐ Scratch? ☐ SOQ
☐ Model 3 - type: ____________ ☐ Points? ☐ Scratch? ☐ SOQ
☐ Model 4 - type: ____________ ☐ Points? ☐ Scratch? ☐ SOQ
☐ Model 5 - type: ____________ ☐ Points? ☐ Scratch? ☐ SOQ
☐ Model 6 - type: ____________ ☐ Points? ☐ Scratch? ☐ SOQ
☐ Written Description - Prototype Documentation and evidence
☐ Photos, Maps, Source Documents
☐ Written Description - Model
☐ Color Photos
☐ Description - Methods and Materials

Section C: Railroad Construction and Operation
Category 5 - Model Railroad Engineer – Civil
☐ Completed Statement of Qualifications
☐ Plan
☐ Scale Drawing of Model Railroad
Size, Scale, Track Elevations, Curve Radii and Turnout Sizes
Terminal Facilities
Storage and Service of Motive Power
Mainline Passing Siding
Four Switching Locations (other than yards, wyes, loops)
Provision for turning Motive Power
Provision for two train simultaneous operation

Execution

87 1/2 Merit Award Points
Scale track work - Amount depends on scale

<table>
<thead>
<tr>
<th>Scale</th>
<th>Z</th>
<th>N</th>
<th>TT</th>
<th>HO</th>
<th>S</th>
<th>O</th>
<th>#1</th>
<th>G</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feet</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>50</td>
<td>50</td>
<td>75</td>
<td>100</td>
<td>100</td>
<td>In proportion to HO.</td>
</tr>
</tbody>
</table>

Ballast
Drainage Facilities and Roadbed profile

Six Track Work Features
Passing Siding
Super Elevation
Spur
Simple Overhead Wire
Cross Over
Compound Overhead Wire
Reversing Loop
Scale Track
Wye
Cog Railway Track
Simple Ladder
Coal Dump Pit
Compound Ladder
Ash Pit
Turntable
Service Pit Track
Transfer Table
Grade Elevation
Other ____________

Three scratch built models that operate satisfactorily (no commercial frogs are allowed in this section)
Turnout
Dual Gauge Turnout
☐ Crossover
☐ Gauge Separation Turnout
☐ Double Crossover
☐ Double Junction Turnout
☐ Single Slip Switch
☐ Three-way Turnout
☐ Double Slip Switch
☐ Spring Switch
☐ Crossing
☐ Operating Switch in Overhead Wire
☐ Gauntlet Track
☐ Other ________________

**Category 6 - Model Railroad Engineer - Electrical**

☐ Completed Statement of Qualifications

☐ Independent Mainline Control - 2 trains
☐ For conventional DC – 5 blocks
☐ For DCC/TMCC/Other – gaps, switches, phase
☐ One Mainline Passing Siding
☐ Reversing loop, Wye, Turntable or Transfer Table
☐ Yard with 3 tracks and Switching Lead - Independent
☐ Facilities for 2 Unused Motive Power Units
☐ One Power Supply with Protective Devices for safe operation
☐ Basic Track Wiring - 3 Items from List - Must Demonstrate
☐ Turnout
☐ Crossing
☐ Crossover
☐ Double Crossover
☐ Single Slip Switch
☐ Gauge Separation Turnout
☐ Double Junction Turnout
☐ Three-way Turnout
☐ Gauntlet Turnout
☐ Sprint Switch
☐ Operating Switch in Overhead Wire
☐ Control and Signaling - 3 Items from List - Must Demonstrate ☐ SOQ
☐ Electrical Turnout Status - 4 turnouts
☐ Track Occupancy Status - 5 blocks
- Cab Control - 2 cabs, 5 blocks
- Engine Terminal with Turn/Transfer table, 3 stalls and 2 other parking places
- Two Turnout Junctions with Electrical Interlocking and Signals
- High Frequency Lighting
- Electronic Throttle with Inertia and Braking Provisions
- Grade Crossing with Electrically Activated Signals
- Two Way Block Signals and Detection - 5 blocks
- Operating Overhead
- Installation of Advanced Electronic or Computer Train Control
- Installation of a Command Control receiver in a Locomotive
- Installation of a Command Control Buss - 2 Throttles, 3 Locations
- Design, Installation and Operation of Electric Animation
- Design, Installation and Operation if Layout Lighting Displays

Note: Commercially assembled complete units are not acceptable in the following items.

- Construction and Installation of a Sound System
- Construction and Installation of a Signaling System
- Development and Installation of a CTC System
- Installation and Operation of an Onboard Video System
- Computer Generated Displays of Block Detection Information
- Hardwired or Stored Control Program for Railroad Operation
- Development and Demonstration of a Computer to MR Interface
- Other _________________________
- Documentation
- Schematics for All of the Selected Projects
- Track Plans as Required with Full Detail
- Descriptions
- Witness Certification

**Category 7 - Chief Dispatcher**

- Completed Statement of Qualifications
  - Fifty hours - A minimum of ten hours must be served in three of the five categories listed below, one of which must be Dispatcher.

The Model Railroad must have at least 2 mainline trains plus yard switching in simultaneous operation; both freight and passenger car movements.

- Engineer: Mainline Freight, Passenger or Way Freight
Yardmaster, Station Master
Hostler, Power Desk
Towerman, Traffic Manager, Road Master
Dispatcher
Documentation
Layout Schematic - Track Plan with Details
Timetable - 8 Hours or more, 3 Mainline trains each direction
Operating Train Chart - At Least 1 Train Meet
Develop an Operational System with all Forms
Witnessed Certificate of Operation

Section D: Service to the Hobby and NMRA Members
Category 8 - Association Official
Completed Statement of Qualifications
Hold at least one of the following offices for the required duration.
Note: The Trustee position was eliminated in January of 2005 when the new regulations were formally adopted; therefore only service as a Trustee before January 2005 can earn credit
- President
- Vice President
- Secretary
- Treasurer
- Director
Duration and Level - One Required
- 1 Year National
- 2 Years Regional if 1 year is President or Trustee
- 3 Years Regional if not President or Trustee
SOQ with Qualified Witness Signature

Category 9 - Association Volunteer - 60 Certified Time Units
Completed Statement of Qualifications
General Manager - National Committee 4 Units per month
Manager - National Committee 3 Units per Month
Member - National Committee 2 Units per Month
Manager - Regional Committee 2 Units per Month
Member - Regional Committee 1 Unit per Month
Official - Division 1 Unit per Month
Manager - Division Committee 1 Unit per Month
Member - Division Committee 1/2 Unit per Month
Member - Division Board 1/2 Unit per Month
Editors - Treated Like Committee Chairmen
Division Officers and Directors Treated Like Regional Committees
Editors for 100% Clubs (4 pages) 1 Unit per Issue - Library Filing Requirement
Official Judge - National Contest 3 Units per Contest
Official Judge - Regional Contest 2 Units per Contest
Official Judge - Divisional Contest 1 Unit per Contest
Boy Scout Merit Badge Advisor 1 Unit per Month Plus a bonus of a unit per Merit Badge Award to each Scout
National clinic given beyond the first time given – 3 Units per presentation
Region/Division clinic given beyond the first time given – 2 Units per presentation

Volunteer Working Record

<table>
<thead>
<tr>
<th>Months</th>
<th>Units Per Month</th>
<th>Total</th>
<th>Serving As.................................</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Accumulated Points
Category 10 - Model Railroad Author - 42 Points Required

- Completed Statement of Qualifications
- Preparation and Submission
  - A page on the NMRA Website (about 1200 words or picture equivalents) also counts as a Full Page
  - No more than 21 points can come from Division or Club Publications
  - No More than 21 points can come from Electronic Publishing - Internet

**Article Submission and Publication Working Record**

<table>
<thead>
<tr>
<th>Item</th>
<th>National Publication</th>
<th>NMRA National</th>
<th>NMRA Region</th>
<th>NMRA Division &amp; SIGs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Article or Column</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Photos or Art Work</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Scale Drawing of Prototype</td>
<td>6</td>
<td>6</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Scale Drawing of Track Plan</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>NMRA Data/RP Sheet-One Subject</td>
<td>-</td>
<td>6</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>National</th>
<th>Region</th>
<th>Division</th>
</tr>
</thead>
<tbody>
<tr>
<td>Given At NMRA Sponsored Events</td>
<td>6</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Given at NON-NMRA Sponsored Events</td>
<td>3</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>
Section E: Master Achievement
Master Model Railroader

- Completed Statement of Qualifications
- Seven Achievement Awards including at least one from each section.

  - Section A - Railroad Equipment
    1. Master Builder Motive Power
    2. Master Builder Cars

  - Section B - Railroad Setting
    3. Master Builder - Structures
    4. Master Builder - Scenery
    4A. Master Builder - Prototype Models

  - Section C - Railroad Construction and Operation
    5. Model Railroad Engineer - Civil
    6. Model Railroad Engineer - Electrical
    7. Chief Dispatcher

  - Section D - Service to the Hobby and NMRA Members
    8. Association Official
    9. Association Volunteer
    10. Model Railroad Author