NMRA Achievement Program Checklist Revised - May 2006

| Section A: Railroad Equipment. |
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| Category 1 - Master Builder - Motive Power |
| Completed Statement of Qualifications |
| Build 3 Scale Models – all 3 with 87 ½ 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? |
| 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? SOO |

| Model 11 - type:Points? |
|---|
| 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 ½ 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 |
| \square_{Exe} | ecution |
| | 87 1/2 Merit Award Points |
| | Scale track work - Amount depends on scale |
| | Scale Z N TT HO S O #1 G OTHER |
| | Feet 25 25 50 50 75 100 100 In proportion to HO. |
| ı | 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

| | | Vol | unteer Working Record |
|--------|--------------------|-------|--------------------------|
| Months | Units Per Month | Total | Serving As |
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| | | | 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

| | Poin | ts Earned | Per Full | Page |
|--------------------------------------|-------------------------|------------------|----------------|----------------------|
| Item | National Publication | NMRA National | NMRA Region | NMRA Division & SIGs |
| Article or Column | 3 | 3 | 2 | 1 |
| Photos or Art Work | 3 | 3 | 2 | 1 |
| Scale Drawing of Prototype | 6 | 6 | 4 | 2 |
| Scale Drawing of Track Plan | 3 | 3 | 2 | 1 |
| NMRA Data/RP Sheet-One Subject | - | 6 | - | - |

| Points Earned For Live Clinics | | | | | |
|---------------------------------------|----------|--------|----------|--|--|
| Item | National | Region | Division | | |
| Given At NMRA Sponsored Events | 6 | 4 | 2 | | |
| Given at NON-NMRA Sponsored Events | 3 | 2 | 1 | | |

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