NMRA Achievement Program Checklist

Revised – May 2006

Section A: Railroad Equipment. Category 1 - Master Builder - Motive Power

Completed Statement of Qualifications

Build 3 Scale Models – all 3 with 87 ¹/₂ merit award points - All super-detailed.

Model 1 – Scratchbuilt - _____

Model 2 - _____

DModel 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 ¹/₂ 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
D 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

Model 11 - type: _	$\underline{\qquad} \square_{Points?} \square_{Scratch?} \square_{SOQ}$
Model 12 - type:	$\square_{Points?} \square_{Scratch?} \square_{SOQ}$

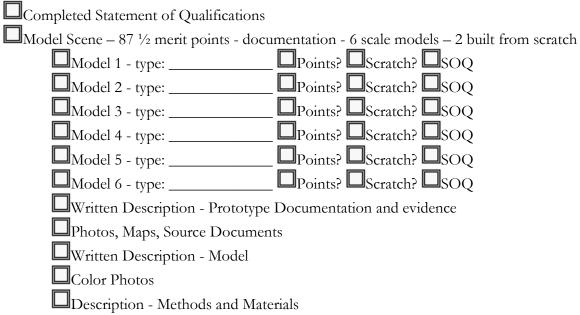
Category 4 - Master Builder - Scenery

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



Section C: Railroad Construction and Operation Category 5 - Model Railroad Engineer – Civil Completed Statement of Qualifications Plan

	Size	e, Sca	le, T	Гracl	x Elev	ratio	ons,	Curve	e Radi	i and Turnout Sizes	
	Terminal Facilities										
	UStorage and Service of Motive Power										
		inline	e Pa	ssing	Sidir	g					
	U For	ır Sw	itch	ing l	Locati	ons	(otł	ner th	an ya	rds, wyes, loops)	
					ning						
		ovisio	n fo	or tw	o traii	ı sir	nult	aneou	is ope	eration	
LΕxe	cution	,									
					vard P						
	-				- Am	oun	t de	pend	s on s	cale	
	Scale			ΤT	HO	S	0	#1	G	OTHER	
	Feet	25	25	25	50	50	75	100	100	In proportion to HO.	
	\square_{Bal}	last									-
	\Box_{Dr}	ainage	e Fa	ciliti	es and	l Ro	oadb	ed pr	ofile		
	Six Tr	ack V	Woi	rk Fe	eature	es					
	Pas	sing S	Sidi	ng							
	Sup	oer El	leva	tion							
	ESpu	ır									
	Sirr	nple (Dve	rhead	d Wire	2					
		oss O	ver								
		mpor	ınd	Ove	rhead	Wii	re				
		versin	0	oop							
		le Tra	ack								
		g Rail	2		ck						
		nple I									
		al Du									
		mpou	ınd	Lado	ler						
		n Pit									
		rntabl	-								
		vice I			2						
		insfer									
		ade E	leva	ation							
		ner	tob	h.;1	t mo	مامه	the	ton	rata	satisfactorily (no commo	roial frage
تص	are all							i ope	Tale	satisfactorily (no comme	iciai irogs
		rnout				,					

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

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

U1 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

		Vol	unteer Working Record
Months	Units Per Month	Total	Serving As
		•	
		•	
		•	
		•	
		•	
		•	
		•	
		•	
		•	· .
		•	· .
•	•	•	
		•	
			Total Accumulated Points
			I

Volunteer Working Record

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	l 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