



15th ANNUAL SKILLS MANITOBA COMPETITION PAINT COMPETITION PROPOSED COMPETITION SCOPE

Break down of Students into 2 groups of 8 competitor's maximum – 4 Secondary and 4 Post-Secondary (2 ½ hour time blocks – morning & afternoon)

Time Block #1 Project:

- Obtain a previously finished basecoat / clear coat fender panel that has been spot repaired / primed in one corner (appx 10" – 12" diameter repair area)
- Prepare the fender panel for paint application by sanding / feathering out the pre-primed repair area and finish sand the remainder of the panel for blending
- Clean the panel and prep for paint – locate panel on rack in spray booth
- Obtain the color code of the panel to be painted (mock-up paint code location / tag)
- Mix and prepare the basecoat components according to manufacturer's specifications
- Obtain appropriate spray equipment & set-up according to recommendations on tech sheet
- Apply base colour coats onto panel and blend color into existing finish allowing proper flash times / procedures
- Clean spray equipment using appropriate methods
- Mix and prepare the topcoat components according to manufacturer's specifications
- Obtain appropriate spray equipment & set-up according to recommendations on tech sheet
- Apply 2 coats of topcoat onto panel and blend color into existing finish allowing proper flash times / procedures
- Clean spray equipment using appropriate methods

Time Block #2 Project:

a) Bumper Project

- Obtain a bumper with a previously scratched area on one side
- Using proper repair methods, sand the damaged area down and prepare for primer application
- Clean the bumper and prep for paint – locate on rack in spray booth
- Mix and prepare the primer according to manufacturer's specifications
- Obtain appropriate spray equipment & set-up according to recommendations on tech sheet
- Apply 2 – 3 coats of primer on spot repair area allowing proper flash times / procedures
- Clean spray equipment using appropriate methods

b) Polishing Project

- Obtain a previously finished panel with a small clear-coat run / sag in the middle\
- Using proper repair / sanding methods, remove the defect
- Final sand and polish / buff to restore original finish and complete repair



15th ANNUAL SKILLS MANITOBA COMPETITION PAINT COMPETITION EQUIPMENT & MATERIALS REQUIRED

Ideal competitor size for the competition is 6 to a maximum of 8 (3 – 4 per block).

Specific requirement quantities based on 8 total contestants – substitute 8 with actual confirmed # of students participating (i.e. 6)

Note 1 - Star items (*) are those that can potentially be brought by individual competitors

Note 2 - All tools & Equipment provided by the competition need to be standardized – unless brought in by competitor

SUPPLIED BODY PANELS / BUMPERS:

- 8 exact same type fender panels (for refinish project)
- 8 exact same type of plastic bumpers (for spot repair / prime project)
- 8 small exact same panels - 18” x 24” minimum (for paint run repair project)

SHOP EQUIPMENT:

- Qty **8** x Folding adjustable work stands (1” tubing / chain type)
- Qty **8** x Fender / bumper holding stands for painting (possibly use paint easels)
- 3 - 3 x 8 metal work tables
- Qty **8** x 25’ Compressed Air hoses & couplers (outside of booth)
- Qty **8** x 20’ Compressed Air hoses & couplers (inside booth)
- Qty **8** x 20’ Fresh Air supplied Air hoses & couplers (inside booth)
- 3 x Large garbage cans & brooms
- 2 x Masking paper dispenser rack
- Miscellaneous extra coupler and air fittings (compatible with shop types)

- Basic Hand tools (adjustable wrenches, screwdrivers, etc.)
- Paint Agitator, solvent disposal drum, mixing room

STANDARD REQUIRED HAND & AIR TOOLS:

- Qty **8** x Air blow-gun *
- Qty **8** x Small hand sanding blocks (hard) *
- Qty **8** x Small hand sanding blocks (soft / flexible) *
- Qty **8** x Long sanding boards *
- Qty **8** x Dual Action 6" orbital sanders *
- Qty **4** x 7" Power polishers / buffer (pneumatic or electric) *
- Qty **4** Run Nib File *

SAFETY AND PPE

- 2 boxes Dust Masks
- 1 pkg (20) Ear plugs *
- Qty **8** x pairs Safety glasses *
- 2 – 3 boxes Latex gloves (lrg & xlrg sizes)
- Qty **8** x Prep Suit / coveralls *
- Qty **8** x Paint Suit *
- Qty **8** x Respirator (air purifying) *
- Qty **8** x Full Face Mask / Spray Hoods – Fresh Air Supplied (& 1 ½" OD connector hoses) *
- 1 box Respirator wipes
- 16** pairs Painter gloves (lrg / xlrg)
- 4** pairs Painter Goggles (for mixing paint) *
- Fire Extinguishers
- Eye Wash Station
- First Aid Kit

REFINISH EQUIPMENT

- Qty **4** x Gravity Cup Primer Spray Guns *
- Qty **4** x Basecoat Spray Guns *
- Qty **4** x Topcoat Spray Guns *
- Misc Spray gun cleaning kit / brushes *
- Misc spray gun wrenches *

GENERAL SUPPLIES & ABRASIVES

- 2 box/roll 6" orbital 220 grit sandpaper (hook-it back-up pad)
- 2 box/roll 6" orbital 320 grit sandpaper (hook-it back-up pad)
- 2 box/roll 6" orbital 400 grit sandpaper (hook-it back-up pad)
- 6" orbital back-up pads compatible with above paper
- 1 box 8 1/2 x 11 free cut paper 220 grit
- 1 box 8 1/2 x 11 free cut paper 320 grit
- 1 box 8 1/2 x 11 free cut paper 400 grit

- 1 box 8 1/2 x 11 free cut paper 1500 grit wet / dry paper for defect removal
- 1 box 8 1/2 x 11 free cut paper 2000 grit wet / dry paper for defect removal
- Bottles of rubbing compound
- Bottles of finish glaze (unless 1 step system)
- 7" foam polishing pad(s) tailored to system (i.e. white / black 3M)
- 2 Box Red Abrasive pads
- 1 package or single edge razor blades
- 1 box laundered shop rags
- 24" or 36" masking paper rolls
- 6 – 8 x 3/4" masking tape rolls
- 6 – 8 x 2" masking tape rolls
- 4 – 6 Pump action solvent dispensing bottles (pre-cleaner)

FINISHING MATERIALS & RELATED SUPPLIES (*Specific Quantities TBD)

- Direct to Metal High-Build Primer & related components (misc temp solvents)
- Waterborne Basecoat & related components
- High Solids Topcoat & related components (misc temp solvents)
- Qty 20 x 1 qt plastic mixing cups
- Qty 8 - Mixing sticks
- Paint strainers
- Finish System: Printed copies of Technical Info, Mixing Instructions and MSDS sheets (4 copies of each)
- 2 – 3 gallons - Pre-clean paint solvent
- 20 gallon pail Gun-Wash cleaning solvent
- 2 -3 boxes Lint Free Pre-Paint Wipes
- 20 – 30 Tack Cloths
- 2 – 3 cans sprayable Guide Coat

OTHER:

- 8 Judging Clipboard & Pencils

NATIONAL COMPETITION ELIGIBILITY:

- A mark of **70% or higher** must be scored by the gold medalist in each contest in order for them to attend the National Skills Competition