



21st ANNUAL SKILLS MANITOBA COMPETITION PAINT COMPETITION CONTEST DESCRIPTION

Break down of Students into 2 groups of 8 competitors' 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



21st 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

THE IMPORTANCE OF ESSENTIAL SKILLS FOR CAREERS IN THE SKILLED TRADES;

Essential skills are used in nearly every job and at different levels of complexity. They provide the foundation for learning all other skills and enable people to evolve with their jobs and adapt to workplace change. Good Essential Skills means you will understand and remember concepts introduced in technical training. The level of Essential Skills required for most trades is as high as or higher than it is for many office jobs.

The following 9 skills have been identified and validated as key essential skills for the workplace:

Numeracy, Oral Communication, Working with Others, Continuous Learning, Reading Text, Writing, Thinking, Document Use, Digital.

Top Essential Skills for Car Painting: Numeracy, Thinking: Decision Making, Job Task Planning and Organizing, Document Use

FOR MORE INFORMATION PLEASE CONTACT TECHNICAL COMMITTEE MEMBER:

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