



25th ANNUAL SKILLS MANITOBA COMPETITION PAINT COMPETITION CONTEST DESCRIPTION

Break down of Students into 2 groups of 12 competitors' maximum – 6 Secondary and 6 Post-Secondary (2 ½ hour time blocks – morning & afternoon)

Two-tone Paint Project

- You will complete basecoat and a two-tone color on a primed automotive part.
- You must prepare the part accordingly for paint.
- When you come to a **STOP** during your repair, you must call a judge to evaluate your progress before you move on to the next step.

Directions

Show all PPE to your judges.

STOP

Prepare part accordingly for refinishing.

STOP

Complete base coat application of first chosen color.

STOP

Mask for two-tone application.

STOP

Apply second color to create two-tone.

STOP

Remove masking and apply clear coat.

clean up your area

Time limit for this project: **3 hours maximum**

Polishing Project

- You have been given a painted panel and you must remove ALL defects from the paint.
- When you come to a **STOP** during your repair, you must call a judge to evaluate your progress before you move on to the next step.

Directions

Show your PPE to the judges. Prepare your panel for the compounding stage and remove defects. Do not compound.

STOP

The panel can now be compounded. Prepare your panel and equipment for the machine glaze stage. Do not machine glaze.

STOP

Machine glaze your panel and clean with detailing spray.

STOP

Apply your decal in correct position. Clean up your area and return all tools and supplies.

clean up your area

Time limit for this project: **1 hour maximum**

Fender Repair Project

- You will be provided a fender panel with minor damage and be required to repair, prime and prepare for paint application.
- You must color match paint swatches to a provided fender panel.
- When you come to a **STOP** during your repair, you must call a judge to evaluate your progress before you move on to the next step.

Directions

Show all your PPE to the judges.

STOP

Clean fender for repairs.

STOP

Feather back the repair area.

STOP

Apply repair material to the area, allow the material to dry and sand the repair.

STOP

Prepare the area for primer application.

STOP

Apply primer to the repair area.

STOP

Cure with UV light, sand your primer and prepare entire fender for paint application.

STOP

Hand in chosen color swatch to judge for color matching.

clean up your area

Time limit for this project: **2 hours maximum**



**25th ANNUAL SKILLS MANITOBA COMPETITION
PAINT COMPETITION
EQUIPMENT & MATERIALS REQUIRED**

Ideal competitor size for the competition is 8 to a maximum of 12 (3 – 4 per block).

Specific requirement quantities based on 12 total contestants – substitute 12 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:

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

SHOP EQUIPMENT:

- Qty **12** x Folding adjustable work stands (1” tubing / chain type)
- Qty **12** x Fender / bumper holding stands for painting (possibly use paint easels)
- 3 - 3 x 8 metal work tables
- Qty **12** x 25’ Compressed Air hoses & couplers (outside of booth)
- Qty **12** x 20’ Compressed Air hoses & couplers (inside booth)
- Qty **12** 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 **12** x Air blow-gun *
- Qty **12** x Small hand sanding blocks (hard) *
- Qty **12** x Small hand sanding blocks (soft / flexible) *
- Qty **12** x Long sanding boards *
- Qty **12** 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 **12** x pairs Safety glasses *
- 2 – 3 boxes Latex gloves (lrg & xlrg sizes)
- Qty **12** x Prep Suit / coveralls *
- Qty **12** x Paint Suit *
- Qty **12** x Respirator (air purifying) *
- Qty **12** 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) *
- UV glasses (for curing process of the primer) *

- 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 SKILLS FOR SUCCESS FOR CAREERS IN THE SKILLED TRADES AND TECHNOLOGY;

In response to the evolving labour market and changing skill needs, the Government of Canada has launched the new Skills for Success (former Essential Skills) model defining nine key skills needed by Canadians to participate in work, in education and training, and in modern society more broadly. SCC is currently working with Employment and Social Development Canada (ESDC) to bring awareness of the importance of these skills that are absolutely crucial for success in Trade and Technology careers. Part of this ongoing initiative requires the integration and identification of the Skills for Success in contest descriptions, projects, and project documents. The following 9 skills have been identified and validated as key skills for success for the workplace: 1.Numeracy, 2.Communication, 3.Collaboration, 4.Adaptability, 5.Reading, 6.Writing, 7.Problem Solving, 8.Creativity and Innovation, 9.Digital

FOR MORE INFORMATION PLEASE CONTACT TECHNICAL COMMITTEE MEMBERS:

Marcel Bernier
Derek Molinski

Mbernier@mpi.mb.ca
DMolinski@mpi.mb.ca