



Project

Car Painting

SECONDARY / POST-SECONDARY



1 INTRODUCTION

This challenge aims to have participants execute common industry refinishing and surface preparation techniques on different substrates. They will be assessed on their understanding of car painting terminology, procedures, and their capability to perform these tasks safely and professionally.

2 DESCRIPTION OF PROJECT AND TASKS

2.1 PAINTING PROJECT

- The prepared panel has burn through that does not require any further repair.
- You will select the correct value shade sealer and apply over burn through area.
- You will apply the colour and clear coat according to the paint manufacturer's recommendations.
- A completed let down panel or spray out card must be given to judge when project is completed. (*let down panel for 3-stage colour, spray-out card for 2-stage panel*).

Clean up your area

Time limit for this task: 3 hours maximum

2.2 PREPPING AND MASKING

**You will be required to complete 2 tasks in the time allotted.
You must manage your time accordingly.**

Part 1: Prepping

- You will be provided a part with minor damage and are required to repair, spot- prime and prepare for paint application.
- Primer surfacer should be recommended spot-prime distance from the repair.
- The project must be ready to spray basecoat.

Part 2: Masking

- You will mask one side of the vehicle for topcoat paint application.
- Panels that require refinishing are described below.
- Secondary:
 - Front door



- Rear door
- Post-Secondary:
 - Fender
 - Front door
 - Rear door
 - Quarter panel

ALL material used during the masking process must be deposited in your designated bin. Failure to do so will result in lost marks for that task.

**NO PARTS ARE TO BE REMOVED FROM THE VEHICLE FOR MASKING
NO RAZOR BLADES ARE ALLOWED TO BE USED ON THE VEHICLE (ANY
COMPETITOR WHO USES A RAZOR BLADE TO CUT MASKING MATERIALS ON
THE VEHICLE WILL RESULT IN A 0 FOR THIS TASK)**

Clean up your area
Time limit for this task: 3 hours maximum

2.3 COLOUR TINTING PROJECTS

**You are required to complete 2 tasks in the time allotted.
You must manage your time accordingly.**

Part 1 – Solid Colour Match

You will create a solid colour using the provided toners, without a formula to match colour #1.

You have a maximum of **5 spray-out** cards to achieve your best match.
Record your progress on the colour plotting chart and worksheets provided.

Directions:

- Create the color from the paint toners provided. You must provide a formula for the color you have created.
- *Failure to supply formula may result in a loss of marks for that task.
- Submit your best match to the judge with the updated formula.

Part 2 – Tinting a Metallic Colour

You will use the supplied paint and tint it to match colour #2.
You will be provided with a formula.



You have a maximum of **5 spray-out** cards to achieve your best match.
Record your progress on the colour plotting chart and worksheets provided.

Directions:

- Use the mixing system to adjust your colour to match the standard. You must provide an updated formula for your new color.
- *Failure to supply formula may result in a loss of marks for that task
- Submit your best match to the judge with the updated formula.

Clean up your area

Time limit for this task: 3 hours maximum

2.4 POLISHING / DECAL PROJECT

You will receive a painted panel and must remove all surface defects from the paint.
You will apply a supplied decal, matching dimensions to the display panel.

Directions:

*During polishing, you are required to ensure that the judges evaluate your work between steps following the manufacturer's recommended polishing process.

*Failure to show the judges your work between steps will result in a loss of marks for that task.

- Sand out all defects
- Compound and polish the panel
- Apply decal to match the provided standard

Clean up your area

Time limit for this task: 3 hours maximum

