



Project

Car Painting

SECONDARY / POST-SECONDARY

1 INTRODUCTION

The purpose of this challenge is to perform refinishing and surface preparation procedures common in the industry on various substrates. Competitors will be evaluated on their comprehension of car painting terms, procedures and their ability to perform tasks in a safe and professional manner.

2 DESCRIPTION OF PROJECT AND TASKS

2.1 PAINTING PROJECT

You will be required to perform a blend repair on the provided panel. Check over the panel prior to starting and identify any existing damage to a judge.

- 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 / spray out card must be given to judge when project is completed.

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.
- Repair the damage and apply filler repair material.
- Spot prime the damage area with primer surfacer.
 - STOP show judges your work before moving on.
- The project must be sanded and prepared 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.
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- 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 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 work sheets 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.

NOTE: Sustainability is tied into the marking criteria for this project, excess product use will result in a loss of points.

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 work sheets 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.

NOTE: Sustainability is tied into the marking criteria for this project, excess product use will result in a loss of points.

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
 - STOP and show judges your work.
- Compound and polish the panel
- Apply decal to match the provided standard

Clean up your area

Time limit for this task: 3 hours maximum



PROBLEM SOLVING



READING



NUMERACY