

## KFE4Skills SHOWCASE BRIEF - AUTOMOTIVE

To be completed by the Lead Brief Writer in agreement with and on behalf of designated college industry leads. All industry templates to be completed and on the KFE site by 21<sup>st</sup> May 2021. Leads should complete all orange accent sections and return to [rule5solutions@gmail.com](mailto:rule5solutions@gmail.com)

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| Industry Name | Automotive |
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|   | Section                         | Guidance   | Confirmed lead details for showcase   |
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| 1 | Entry Criteria                  | Entrants must be in education and/or employment with training, at one of the KFE college organisations (EKC Group, MidKent College and North Kent College (including West Kent College and Hadlow College), and/or have completed or be undertaking a relevant Level 2 or 3 or above programme within the last 12 months   |   |
| 2 | Entrant Numbers                 | Standard entrant number per college organisation is 2 students for most industry rounds where more than 2 college organisations are participating and 3 per organisation where only 2 colleges are participating.<br>This is except where the industry specs have indicated either a higher level of entrants for a specific industry such as performing arts or teams such as for digital video production. | <p>Confirm number of students per college organisation: <b>2</b></p> <p>Confirm number of students in total showcase: <b>6</b></p> <p><b>In the event that only 2 colleges support this showcase just 2 of the tasks will be utilised but a minute extra may be added to the showcase video / presentation.</b></p>         |
| 3 | Showcase Task Brief Description | <p>To be completed by lead brief writer:</p> <p>This section should describe in uncomplicated terms what the students are to prepare or demonstrate and how or in what way.</p>  | <p>Complete showcase brief (detail the task or challenge):</p> <p>Students are to demonstrate / showcase one of the following tasks. Staff leads may liaise so that each colleges' students undertake one of the tasks (although that is not essential). 2 students may work together accordingly on the task showcase.</p> |

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|  | <p>It should provide the total time required for the task in addition to the time that the showcasing element may take. For example, the pre event preparation for creating a digital video may take several hours but the showcase product might be 2 minutes in duration.</p> <p>Tasks ideally should be singular in nature and not multiple tasks.</p> | <p>As each task takes 60 minutes in the competition, the demo / showcase task can be undertaken in advance and a short time-lapse video made showing the work to completion. Or a presentation can be produced detailing the key aspects of each task to completion.</p> <p><b>Task 1 – Full Braking system inspection and adjustment (Time allowed 60 minutes)</b></p> <ul style="list-style-type: none"> <li>○ Open to all levels of students</li> <li>○ A job card with inspection information will be provided.</li> <li>○ A vehicle will be placed on a two-post ramp with all four wheels removed. The vehicle is to have disc brakes on the front, drum brakes on the rear and ABS.</li> <li>○ Competitors are to carry out a full braking system inspection, taking measurements where necessary and comparing them to manufacturers data.</li> <li>○ Measuring equipment to be used may include: Engineers rule, Micro-meter, Internal Vernier for drum diameter, brake fluid boil tester, suitable diagnostic tool.</li> <li>○ Any components removed must be refitted in the correct safe manner.</li> <li>○ The handbrake must be adjusted to a professional standard and a report produced.</li> </ul> <p><b>Task 2 – Diagnosis of abnormal tyre wear (Time allowed 60 minutes)</b></p> <ul style="list-style-type: none"> <li>○ Open to all levels of students</li> <li>○ Competitor will be given a job card explaining that the customer has had two new tyres fitted to the front of their vehicle and they were told that the old tyres had abnormal wear.</li> <li>○ Vehicle is to be placed on a two-post ramp with the wheels still attached.</li> <li>○ Competitors will be expected to carry out the necessary checks of wheel and tyre, suspension and steering components which could lead to abnormal tyre wear before checking the wheel alignment using laser</li> </ul> |
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|   |                          |   | <p>wheel alignment equipment such as “Supertracker” or “Sealey”. Link for equipment here: <a href="https://www.supertracker.com/products/str1-lctr24">https://www.supertracker.com/products/str1-lctr24</a></p> <ul style="list-style-type: none"> <li>○ Adjustments to the wheel alignment do not need to be made, however all findings to be recorded.</li> </ul> <p><b>Task 3 – Diagnosis of a misfire (Time allowed 60 minutes)</b></p> <ul style="list-style-type: none"> <li>○ Open to all levels of students</li> <li>○ A petrol vehicle is to be on the floor with a mechanical engine fault causing a misfire. (For example a poorly adjusted valve clearance)</li> <li>○ Competitor will be expected to carry out all necessary diagnostic checks to locate the cause of the misfire.</li> <li>○ Specialist equipment will be made available including, suitable diagnostic equipment, compression tester and cylinder leakage tester, multi-meter, fuel pressure.</li> <li>○ Competitors will be expected to write a report on their findings and compare to manufacturers data.</li> </ul> |
| 4 | Core Competency          | Summarise relevant education level industry competency being showcased or demonstrated.   | <p>Indicate bullet point core competences the challenge may validate related to the main programmes of the students if applicable:</p> <p>The core competences to be demonstrated via the tasks are:</p> <ul style="list-style-type: none"> <li>○ Full braking system inspection (vehicle will have discs and drums)</li> <li>○ Diagnosis of abnormal tyre wear</li> <li>○ Diagnosis of a misfire</li> </ul>   |
| 5 | Showcase / Demo Duration | <p>This is the time that the actual showcase or demonstration activity will take per student or team – for example 2 or 5 minutes.</p> <p>The total showcase time for the industry skill should also be indicated – for example 15 minutes if 3 students undertook a 5 minute demo.</p> | <p>Confirm the expected time required for individual students (teams) to:-</p> <p>Prepare for the showcase task:<br/>This may take 1 hour plus necessary H&amp;S / familiarisation</p> <p>Duration of the finished task for the purposes of the showcase:</p>  |

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|   |                           |  | <p>Up to 5 minutes per task and per college.</p> <p><b>Total time required for the whole showcase transmission on Remo:</b><br/>15 minutes.</p>   |
| 6 | Showcase Format or Medium | <p>Indicate which:</p> <ul style="list-style-type: none"> <li>○ Pre-recorded video and supplied as a ready video in advance to be played via Remo on the day,</li> <li>○ PowerPoint or other presentation form to be supplied in advance to be relayed via Remo on the day,</li> <li>○ Video feed to be streamed live on the day,</li> <li>○ Presentation to be streamed live on the day,</li> <li>○ Demonstration or performance to be streamed live on the day,</li> </ul> | <p><b>Indicate how the showcase content will be provided (format):</b><br/>Ideally a time-lapse video or presentation with visual slides. This can be as creative as each college choses.</p> <p><b>Indicate how the showcase content is planned to be transmitted:</b><br/>To transmit on Remo as a pre-recorded video or presentation. Automotive staff may wish to provide an introduction collectively.</p> |
| 7 | Technical Requirements    | <ul style="list-style-type: none"> <li>○ Detail any technical requirements such as ICT or other equipment / tools / resources required and / or the technical scope for students – for example what sort of ICT might be required for web design or the manner in which digital video production films should be supplied. For hair and beauty this may include any reference to ensuring that products are tested for allergic reactions etc.</li> </ul>                    | <p><b>Detail any technical requirements needed:</b></p> <ul style="list-style-type: none"> <li>○ Suitable automotive facilities for each task.</li> <li>○ Video making support if that option is selected.</li> </ul>   |
| 8 | Student Support Required  | <p>Detail if student helpers are required and how many per student undertaking the demonstration or showcase task, such as:</p> <ul style="list-style-type: none"> <li>○ Models for hair and beauty industries</li> <li>○ Technical helpers (for example lighting and production in performing arts)</li> <li>○ Actors or extras in digital video production films</li> <li>○ Other helpers</li> </ul>   | <p><b>Details of student helpers required:</b><br/>NA unless they support video production or producing the presentation for the showcase.</p> <p><b>What roles will they primarily assist with:</b> TBC</p> <p><b>How many will be required per student / college organisation:</b> TBC</p>  |

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| 9  | Resources & Attire | Detail any PPE or dress code requirements.  | <p><b>Confirm specific PPE or dress code requirements:</b></p> <p>As per standard workshop expectations for each college and industry standards relevant to undertaking the task.</p> |
| 10 | Health & Safety    | Confirmation that relevant health and safety checks and assurances are undertaken or are to be by each college locally where necessary. | <p><b>Confirm if requirement is necessary:</b></p> <p>This is to be confirmed at each college as necessary.</p>   |
| 11 | Risk Assessment    | Confirmation that relevant risk assessments have been or are to be undertaken locally where necessary.                                  | <p><b>Confirm if requirement is necessary:</b></p> <p>As above and should be filed as per each college's procedures.</p>  |
| 12 | Other Aspects      | Detail any other considerations:  | <p><b>Confirm any other considerations or details for the showcase:</b></p> <p>NA / TBC</p>   |

**Note:** For a copy of this pro-forma in MSWord please contact [rule5solutions@gmail.com](mailto:rule5solutions@gmail.com)