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**SSERC Risk Assessment** (revised version March 2018)

(based on HSE’s INDG 163 ‘Risk assessment - A brief guide to controlling risks in the workplace’)

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| Activity assessed | Ethanol Rocket |
| *Date of assessment* | 09/01/2019 |
| *Date of review (****Step 5****)* |  |
| *School* |  |
| *Department* |  |

| Step 1 | Step 2 | Step 3 | Step 4 | | |
| --- | --- | --- | --- | --- | --- |
| *List Significant hazards here:* | *Who might be harmed and how?* | *What are you already doing?*  *What further action is needed?* | *Actions* | | |
| *by whom?* | *Due date* | *Done* |
| Industrial denatured alcohol (IDA) is highly flammable | Technician, Demonstrator by burns | Wear eye protection  Keep container well away from any sources of ignition and ensure it is closed before rocket is ignited. |  |  |  |
| Rocket might fly off course and hit someone | Demonstrator audience through imp[act | Ensure runners are firmly taped to the top of the rocket.  Do not allow audience to stand close to the wire track.  Demonstrator and audience wear eye protection. |  |  |  |

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| **Description of activity:**  Using IDA (Industrial Denatured Alcohol) as a fuel to propel a 2l fizzy drinks bottle along a string/wire. |

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| **Additional comments:**  If you are using alternative fuels (other than methanol, ethanol or propanol) then contact SSERC for special risk assessment.  Both demonstrator and audience to wear eye protection.  The bottle should be for carbonated, not still drinks. It will either say PET or have a ‘1’ inside the recycling triangle If there are any signs of damage, frosting or cracking the bottle must be replaced.  **Ensure the audience is not standing in the line of the rocket’s trajectory.** |