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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’)

2 Pitreavie Court, South Pitreavie Business Park, Dunfermline KY11 8UU

tel : 01383 626070 e-mail : [enquiries@sserc.org.uk](mailto:enquiries@sserc.org.uk) web : [www.sserc.org.uk](http://www.sserc.org.uk)

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| Activity assessed | Coca cola powered clock |
| *Date of assessment* | 05/02/2016 |
| *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* |
| Magnesium metal is flammable. | Technicians when preparing equipment. | Keep away from sources of ignition. |  |  |  |
| Particles of magnesium entering the skin may produce a local lesion which is slow to heal. | Demonstrator/Audience when cleaning the magnesium | Care should be taken when handling. |  |  |  |
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| **Description of activity:**  Pieces of magnesium and copper are cleaned and then placed over opposite sides of a beaker.  Coca cola is poured into the beaker to act as the electrolyte.  The current produced is used to power a clock. |

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| **Additional comments:**  This is a low hazard activity. Unless there is deemed to be a genuine likelihood of the particles of magnesium becoming embedded in the skin (unlikely) then no special precautions are required. |