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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 | A Redox Titration |
| *Date of assessment* | 7th December 2021 |
| *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* |
| Iodine is harmful if swallowed and produces irritating fumes. | Technician while preparing solutions by inhaling fumes. | Wear eye protection and work in a well-ventilated room. (Gloves could be advisable to avoid staining of hands) |  |  |  |
| 0.025 mol l-1 iodine solution is of no significant hazard. (at this low concentration it will not release any significant amount of fumes) |  |  |  |  |  |
| Starch, solid and solution, is of no significant hazard. |  |  |  |  |  |
| Vitamin c tablets are of no significant hazard. |  |  |  |  |  |
| Sodium thiosulphate (used for clearing spillage or standardising the iodine solution is of no significant hazard. |  |  |  |  |  |
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| **Description of activity:**  A vitamin C tablet is dissolved in water and aliquots titrated against iodine solution using starch as an indicator. |

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| **Additional comments:**  Disposal – all solutions can be washed to waste with plenty of cold running water |