High-T Impedance Spectroscopy proficiency checklist

G28 Geophysics Laboratory, Mawson Building

**Staff/student Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ID\_\_\_\_\_\_\_\_\_\_\_\_**

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| **1. Safety** | |
| Enclosed shoes must always be worn in the laboratory. |  |
| Ensure there are no detectable leaks in the gas lines. If leaks are detected, isolate the gas in the laboratory and at the cylinder. |  |
| A high temperature warning sign must be placed in front of the furnace in an obvious position to other lab users and not in direct contact with the furnace. |  |
| Read and thoroughly understand the Risk Assessment and Safe Operating Procedure for the laboratory. |  |
| **2. Procedure** | |
| Ensure no foreign objects are in contact with the furnace. |  |
| Ensure the gas lines are properly connected, inspected for leaks and vented to the outside through the appropriate ventilation hole above the window. Fill out, date and sign the gas inspection sheet in the laboratory. |  |
| Follow the Safe Operating Procedures as outlined in the lab documentation. A hardcopy can be found in the lab, a pdf can be found on the lab’s computer and an online version can be found at <https://uofa-electrical-conductivity-laboratory.readthedocs.io/en/latest/> |  |
| In each case of contacting Emergency Services, security should also be contacted on extension 35444, so that they are aware and can direct Emergency Services when they arrive on the scene. |  |
| **3. Equipment** | |
| In general, lab equipment should not be operated manually but through the controlling computer. Instructions can be found in the Standard Operating Procedures in the supplied lab documentation. |  |

I \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (name of the assessor) have demonstrated safe and correct operation of the **impedance spectroscopy laboratory** to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (name of the assessed) and I am confident that they can demonstrate safe behaviour in the laboratory.

Signature of the assessed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature of assessor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

I understand my role as a supervisor of persons working within the **impedance spectroscopy laboratory, G28, Mawson Building** and I will ensure that they have adequate supervision during the induction period.

Supervisors Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_