Self Assessment – Liquid Nitrogen

For your own safety and/or safety of your work force, and to improve the efficiency of your business practices, you should be aware of, and keep up to date with the latest relevant safety legislation and good practice.

To help you do this we've put together the following Safety Assessment information to help you work safely with liquid nitrogen.

Select YES or NO in answer to the following questions

1	Have risk assessments been completed on the use of cryogenic vessels and dewars in the workplace?	Y	N
2	Are standard operating procedures in place covering the safe handling and decanting of liquid nitrogen?	Y	N
3	Have all operators been trained in the appropriate standard operating procedures?	Y	N
4	Are all locations where liquid nitrogen is used clearly identified with appropriate signage?	Y	N
5	Is the working environment clean, free from oils, greases and flammable materials?	Y	N
6	Are all first-aiders trained in the treatment of cryogenic burns?	Y	N
7	Has a manual handling assessment been completed covering the movement of cryogenic vessels and dewars?	Y	N
8	Have Written Schemes of Examination been produced for those pressure vessels that fall into the scope of the Pressure Systems Safety Regulations 2000?	Y	N
9	Are the vessels, pipework and accessories (hoses) clean and free from damage, deterioration and leaks?	Y	N
10	Are the correct vessel labels clearly displayed and legible and are they appropriate for the product(s)?	Y	N
11	Are all valves, inlets and outlets clearly marked and identified on the top of the pressure vessels?	Y	N

12	Are the safety relief devices correct for the vessel types and pressures, and do they have a valid date ring fitted, and are they free from ice or damage?	Y	N
13	Are the bursting discs correct for the vessel types and pressures, and are they free from damage?	Y	N
14	Are all pressure build regulators and pressure gauges free from unauthorised repairs?	Y	N
15	Does the pressure raising circuit operate correctly on all vessels?	Y	N
16	Are all dewars in good condition, free from damage, labelled correctly and fitted with the correct cap?	Y	N
17	Do all operators understand the need to transfer liquid nitrogen at pressures between 5 – 10 psi?	Y	N
18	Are all staff equipped with appropriate PPE and trained in its use?	Y	N
19	Do all decanting operations take place outside or in well-ventilated areas?	Y	N
20	Are all potentially oxygen deficient areas/confined spaces clearly recognised and identified?	Y	N
21	Are fixed oxygen monitors installed in areas where liquid nitrogen vessels are stored or used (subject to a risk assessment)?	Y	N
22	Are all personnel who work within these areas supplied with appropriate personal oxygen monitors?	Y	N
23	Do all personnel understand the potential hazards posed by oxygen deficient atmospheres and are procedures in place to successfully rescue anyone who is overcome by an inert gas?	Y	N
24	Are there clearly established emergency evacuation procedures, which are updated and practised on a regular basis?	Y	N
25	Are all areas where liquid nitrogen vessels are used or stored designated as no smoking and clearly marked as such?	Y	N

The above information is to be used as a guide and cannot cover all potential hazards and risks within specific working environments.