

ESTATES COMPLIANCE ARRANGEMENT (ECA)

ECA 10 - Pressure Systems Compliance



UNIVERSITY OF
LINCOLN

1.0 Policy Link (Level 1 Document)

This arrangement has been written in line with the relevant UoL Pressure Systems (if applicable) Policy and Guidance notes which can be found at

[Health and Safety Department \(sharepoint.com\)](#)

2.0 Definitions

The definitions below are taken from L22 – Safety in Pressure Systems, which is the approved code of practice (ACOP) for the Pressure Systems Safety Regulations.

Pressure system

- (a) a system comprising one or more pressure vessels of rigid construction, any associated pipework and protective devices; or
- (b) the pipework with its protective devices to which a transportable pressure receptacle is, or is intended to be, connected; or
- (c) a pipeline and its protective devices, which contains, or is liable to contain a relevant fluid, but does not include a transportable pressure receptacle.

Relevant fluid

- (a) steam; or
- (b) any fluid or mixture of fluids which is at a pressure greater than 0.5 bar above atmospheric pressure, and which fluid or mixture of fluids is—
 - (i) a gas, or
 - (ii) a liquid which would have a vapour pressure greater than 0.5 bar above atmospheric pressure when in equilibrium with its vapour at either the actual temperature of the liquid or 17.5 degrees Celsius; or
- (c) a gas dissolved under pressure in a solvent, contained in a porous substance at ambient temperature and which could be released from the solvent without the application of heat.

Protective devices

Devices designed to protect the pressure system against system failure and devices designed to give warning that system failure might occur, and include bursting discs

Competent person

The term 'competent person' refers not to the individual employee who carries out duties under the Regulations, but to the body which employs the person charged with those duties. Thus, the definition of competent person makes it clear that the legal duty to comply rests with a competent person's employer, and not with an individual, unless that person is self-employed.

3.0 Purpose

The purpose of this arrangement is to outline the Estates Department's Pressure Systems Compliance processes at the UoL Campus locations, to ensure all known Pressure Systems are installed, inspected, maintained, and used safely.

4.0 General

This arrangement applies to all University locations in which there are systems or equipment managed by the Estates Department which contain a liquid or gas under pressure, and which meet

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the relevant criteria under the Pressure Systems Safety Regulations 2000. These regulations apply to any steam system at any pressure.

For examples of pressure systems and equipment, including the principal causes of pressure related incidents, please see the embedded links below:

[About pressure systems - Pressure systems \(hse.gov.uk\)](#)

[Pressure systems at work: A brief guide to safety INDG261 \(hse.gov.uk\)](#)

Please see Appendix 1 for a user/owner decision tree on 'Do the regulations apply to my pressure system.'

Responsibilities

Vice Chancellor

On behalf of the University the Vice-Chancellor has executive responsibility to ensure that the requirements of the H&S legislation and the University H&S policy are complied with.

Head of Colleges, Schools and Departments

All Heads of College, Schools and Departments are responsible for ensuring the safe installation, use and maintenance of pressure systems.

5.0 Procedure

Pressure Systems register

The Estates Department must be informed of the presence of a pressure system to enable them to maintain the register of all pressure systems which is held on Planon. Dependent on the category, they may act as (or appoint) a competent person to advise on the scope of the written scheme, draw up or certify schemes of examination and carry out examinations under the scheme.

Colleges, Schools or Departments procuring new pressure systems shall, as early as possible before installation, provide the following information to the Estates Support Desk:

- Full specification of the system.
- Planned location.
- Expected dates of installation and commissioning.

Colleges, Schools and Departments shall also inform the Estates Support Desk of plans to remove any registered pressure system prior to its removal.

Provision of safe equipment

When installing new equipment, it is vital to ensure that it is suitable for its intended purpose and that it is installed correctly. The pressure system must be designed and installed by a Competent Person.

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The pressure system should be designed and manufactured from suitable materials making sure the vessel, pipes and valves have been made of suitable materials for the liquids or gases they will contain. A written scheme must be produced as part of the installation project

Protective devices

Protective devices include any protective control or measuring equipment which is essential to prevent a dangerous situation from arising. Instrumentation and control equipment would be classed as a protective device in the following situations:

- where it has to function correctly to be able to protect the system.
- where it prevents the safe operating limits being exceeded in situations where no other protective device is provided (for example, where the relevant fluid is so toxic that it cannot be released to atmosphere). In these cases, the control equipment is itself the protective device.

Protective devices which protect a system which contains or is liable to contain a relevant fluid are covered by the Regulations even if they are located on a part of the system which does not contain a relevant fluid.

Protective devices must:

- Be suitable for their purpose and correctly fitted to the vessels or pipe work.
- Be adjusted to the correct settings.
- Be noticeable, either by sight or sound (if warning devices are fitted).
- Be kept in good working order.
- Where applicable, discharge to a safe place.
- Not be altered once set, except by an authorised person.

Maintenance

The Estates Department will maintain all pressure systems in line with legislative guidance using SFG 20 or other appropriate maintenance schedules. For further guidance on the operation and maintenance of pressure systems, please contact the Head of Maintenance and Facilities in the Estates Department.

Training and competency

Everybody operating, installing, maintaining, repairing, inspecting, and testing pressure systems should have the necessary skills and knowledge to carry out the job in a safe and competent manner.

A Competent Person may be:

- a company's own in-house inspection department.
- an individual person (e.g. a self-employed person)
- an organisation providing independent inspection services.

Examination

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Under the Pressure Systems Safety Regulations 2000, a written scheme of examination is required for most pressure systems. Exempted systems are listed in the Regulations.

The written scheme should be drawn up (or certified as suitable) by a competent person. It is the duty of the user of an installed system and the owner of a mobile system to ensure that the scheme has been drawn up. A pressure system must not be operated (or hired out) until a written scheme of examination is in place and the system has been examined.

The written scheme of examination for pressure systems

The written scheme of examination must cover all protective devices. It must also include every pressure vessel and those parts of pipelines and pipework which, if they fail, may give rise to danger.

The written scheme must specify the nature and frequency of examinations and include any special measures that may be needed to prepare a system for a safe examination.

The pressure system must be examined in accordance with the written scheme by a competent person.

For fired (heated) pressure systems, such as steam boilers, the written scheme should include an examination of the system when it is cold and stripped down and when it is running under normal conditions. This must include all protective devices. It must also include pressure vessels, and parts of pipework, which if they failed could give rise to danger.

The scheme must be drawn up (or certified as suitable) by a competent person. It must specify whether the examination is in-service or out-of-service and how often the system is to be examined. The system must be examined by a competent person in accordance with that scheme.

Remember, an examination undertaken in accordance with a written scheme of examination is like an MOT for your car. It is a statutory examination that is designed to ensure that your pressure system is 'roadworthy'. It is not a substitute for regular and routine maintenance.

6.0 Estates Department points of contact

Please contact the Estates Compliance Team for clarification or further guidance on these Arrangements.

7.0 Associated Documents

Internal

Level 2 Associated Documents

Reference	Title
ECA 04	CDM Compliance
ECA 05	PTW Compliance

Level 3 Documentation

Reference	Title
N/A	N/A

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External

Source	Title
ACOP	Pressure Systems Safety Regulations 2000. Approved Code of Practice and guidance on Regulations
INDG261	Pressure systems at work: A brief guide to safety

8.0 Change History

Version	Date	Summary of Changes Made
1	10/03/21	Estate Compliance Arrangement for Pressure Systems Compliance created
2	07/06/21	Internal Review Board Check
3	22/03/22	RW and SJ review
3.1	13/04/22	For issue

9.0 Appendix List

Appendix	Title
1	User/owner decision tree: Do the regulations apply to my pressure system?



APPENDIX 1

User/owner decision tree: Do the regulations apply to my pressure system?

