

Competency Training Record for use of **diamond-anvil and piston-cylinder (< 20 kbar) pressure cells.**

Location: **portable, normally located in Physics Room 127.**

PIs: **Paul Goddard.**

Synopsis of training

The training will establish that the user:

- has read and understood the details of the risk assessment
- has undertaken all online training modules required by University
- has read all instruction manuals relevant to using equipment
- understands what actions to take in case of emergency
- understands the out-of-hours working policy

In addition the following key issues/hazards will be discussed:

- Use of goggles/faceshield
- Securing the room and two-person rule for loading of 20-kbar-class piston-cylinder cells
- Dangers of sudden loss of pressure and common failure modes
- Handling pressure cells
- Pressure cell design and assembly
- Safe pressure limits for cells
- Reusing pressure cells
- Safe storage of pressurized cells

Competency in the following tasks is to be established:

- Handling pressure cells
- Assembling and disassembling cells
- Loading and unloading using hydraulic press

Note: for previously trained users a training refresh can be completed through the user demonstrating competence and understanding of the standard operating procedures, rather than a formal training session.

List of approved superusers who can train other users

Name	Training Date	Refresh Date	Authorised by	Signature
Matthew Coak	30/11/21	30/11/24	Paul Goddard	

List of approved users

Name	Training Date	Refresh Date	Authorised by	Signature
Shroya Vaidya	30/11/21	30/11/24	Paul Goddard	