# Safe Work Procedure

**Process/Equipment:** Large-Scale Drain-Installation Machine and Consolidometer  
**Location:** High Bay Lab

**Procedure Developed by:** Cholachat Rujikiatkamjorn  
Ali Ghandeharioon  

**Approved by:** Associate Professor Muhammad Hadi  

**Date:** 25/09/2006

**Referenced UOW Guidelines, legislation, codes of practice, Australian Standards etc:**

All users must be trained in all aspects of the machine prior to use including a competency test to ensure that the user has demonstrated they can use the machine safely.

### Personal Protective Equipment Required

*Check the box for required PPE:*

- [ ]
- [ ]
- [ ]
- [ ]
- [ ]

### Activity  
(Steps in the process/task) | Hazards Identified  
(What could cause an injury) | Risk Score  
(How harmful is it) | Controls  
(What can be done to minimise the risk of injury)

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hazards Identified</th>
<th>Risk Score</th>
<th>Controls</th>
</tr>
</thead>
</table>
| Ensure the work area is safe. | - Tools, oil left on floor  
- Incorrectly kept heavy parts of cell and electric cables | M          | - Ensure tidy/clean work area  
- Make sure cell parts are securely positioned, and watch for electric cables |
| Inspection of pressure lines and crane | - Damage or leak in pressure lines  
- Crane sling drops due to improper function of clamp or oil leak | M          | - Check the pressure lines for leak and damage  
- Check the pressure valves  
- Check the crane, sling and clamp |
| Preparation of test Configuration of the drain-installation machine | - Handling of steel cell parts and tools  
- Assembling the cell | M          | - Use crane for the assembly  
- Wear safety shoes and gloves  
- Have an appropriate training to assemble the cell  
- Make sure the steel struts are tightened completely before commencing the test |
| Pre testing | Application of high pressures | M | - Make sure all valves are correctly positioned before applying any pressure  
- Wear glasses to avoid possible eye contact with the confining oil |
<table>
<thead>
<tr>
<th>Process/Equipment: Large-Scale Drain-Installation Machine and Consolidometer</th>
<th>Location: High Bay Lab</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procedure Developed by: Cholachat Rujikiatkamjom Ali Ghandeharioon</td>
<td>Approved by: Associate Professor Muhammad Hadi</td>
</tr>
<tr>
<td>Date: 25/09/2006</td>
<td></td>
</tr>
<tr>
<td><strong>Testing (consolidation)</strong></td>
<td>Rotating handle attached to the overhead mechanical drive</td>
</tr>
<tr>
<td><strong>End of test</strong></td>
<td>- Removal of pressure lines &lt;br&gt; - Dismantling the cell</td>
</tr>
<tr>
<td><strong>End of test</strong></td>
<td>- Leaving the crane in an improper way &lt;br&gt; - Incorrectly kept tools and cell part &lt;br&gt; - Spilled oil/water on the floor &lt;br&gt; - Power and electric cables</td>
</tr>
</tbody>
</table>