**Mobile Oxy-Acetylene/Propane: Before Use Visual Checklist**

Operators should always follow company approved procedures.

<table>
<thead>
<tr>
<th>Satisfactory</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Report to Supervisor if unable to rectify</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Trolley**
- Good condition

**Cylinders**
- Secured: Upright & chained
- Gas Type: Appropriate for task
- Labelling: Correctly labelled with name of gases
- Valves: Clean; uncontaminated; no PTFE

**Regulators**
- Body Front & Pressure Adjustment Screw: Undamaged; Standard Marked BS EN ISO 2503
  - Labelled showing correct for gas in use; manufacturer’s name visible
  - Inlet & outlet pressure appropriate
  - Fixed to body & operates freely
- Bullnose & Outlet Connection (not applicable if regulator already fitted): Undamaged; uncontaminated; unmodified; no PTFE
  - 90° to body
- Pressure Relief Valve (where fitted): In place; unmodified
- Gauges: In place; correct type
  - Undamaged; unmodified; no PTFE
  - Needles start at zero; positioned at correct side of stop; unbent
  - Backs in place

**Flashback Arrestors**
- Body: Undamaged; standard marked ISO 5175; EN 730 -1
- Connections: Clean; uncontaminated; no PTFE
- Pressure Rating: Legible; suitable for cylinder
- Replacement Interval: Where date stamped under 5 years or manufacturer’s recommendation
- Reset Button (if present): Not tied down, restricted, modified or damaged

**Hoses**
- Hose: Correct colour code
  - Standard marked ISO 3821 or EN 559
  - Undamaged
- Pressure Rating: Legible; suitable for cylinder
- Replacement Interval: Where date stamped under 5 years or manufacturer’s recommendation
- Reset Button (if present): Not tied down, restricted, modified or damaged

**Fittings**
- Appropriate thread; clean; uncontaminated
- Non return/Hose Check Valves: Fitted to each hose

**Torch**
- Torch Valves: Operate freely to full extent & remain attached to torch; undamaged
- Inlet Filters & Connections: Clean; uncontaminated
- Handle: No excessive play
- Body: Undamaged; clean
- No discolouration
- Pipework: Straight; undamaged
- Nozzle Seat: Undamaged; uncontaminated; no PTFE
  - Threads in good condition
  - Round in shape, not oval
- Nozzle & Nut: Correct type from nozzle data; undamaged; uncontaminated

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Rev. October 2014

Check: Cylinder closed. Regulator closed. Torch valve closed.

See light up procedure overleaf for next steps.
## Typical Light Up Procedure

<table>
<thead>
<tr>
<th>Check</th>
<th>Visual Checks</th>
<th>Purge Oxygen &amp; Fuel Hoses in Turn Whilst Setting Working Pressures</th>
<th>Leak Check</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local fire procedure are followed</td>
<td>Before use visual checks are completed (see over)</td>
<td>Purge oxygen &amp; fuel assembly in turn</td>
<td>Leak check every joint</td>
</tr>
<tr>
<td>Fire extinguishers are available</td>
<td></td>
<td>Open cylinder valve to a maximum 1.5 turns</td>
<td></td>
</tr>
<tr>
<td>Appropriate PPE is in use</td>
<td></td>
<td>Open torch valve</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Open regulator &amp; adjust to set for initial working pressure</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Completely purge each hose &amp; gas assembly checking for gas flow from torch</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Close torch valves</td>
<td></td>
</tr>
</tbody>
</table>

### Purging should only take place in well ventilated areas not in confined spaces

### Ensure torch valves are closed before proceeding

**Purge Torch**
- Open oxygen torch valve purge 3-5 seconds close torch valve
- Open fuel torch valve purge 3-5 seconds close torch valve

**Lighting the System**
- Open fuel gas torch valve. Use the correct spark lighter for the fuel gas in use
- Light the torch. For acetylene increase fuel gas valve to reduce smoke if necessary
- Slowly open the oxygen torch valve until a clear sharply defined flame is achieved

### Typical Shut Down Procedure

<table>
<thead>
<tr>
<th>The fuel gas is normally switched off first - however consult the Equipment Supplier’s handbook as there may be variations.</th>
<th>Extinguish the Working Flame at the Torch</th>
<th>Fuel gas off</th>
<th>Oxygen off</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Close Cylinder Valve</td>
<td>Turn the cylinder valve keys clockwise until closed</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vent System (No Gas)</td>
<td>Open torch valves in turn</td>
<td>Vent the gas from each of the hoses</td>
</tr>
<tr>
<td></td>
<td>Close Torch Valves</td>
<td>Close all torch valves</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Close Regulator</td>
<td>Close regulator pressure adjustment screw</td>
<td></td>
</tr>
</tbody>
</table>

### CHECK 3 STOPS

<table>
<thead>
<tr>
<th>Three stops employed!</th>
<th>1 Cylinder closed</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Torch valves closed</td>
<td></td>
</tr>
<tr>
<td>3 Regulator closed</td>
<td></td>
</tr>
</tbody>
</table>

### Safely Stow Equipment

- Preferably do not stow hoses around the cylinders
- Remove the cylinders from any confined space

## EMERGENCY PROCEDURE FOLLOWING FLASHBACK EXPLOSIONS & SUSTAINED BACK FIRE

### TURN OFF

1 Oxygen torch valve first

### ONLY IF SAFE TO DO SO

2 Fuel gas torch valve

3 Cylinder valves

Immediately put down the torch, preferably in water, as the oxygen may use the torch components as a fuel causing the torch to melt.

### Check Acetylene Cylinder (if used)

If the cylinder appears to generate its own heat, or has been involved in a fire, evacuate the area & call the Fire Services.

### Check Equipment for Damage

Replace damaged hose & any damaged equipment

### Restart

Ensure visual before use checks & light up procedures are repeated

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Mobile Oxy-Acetylene/Propane Units

Operators should always follow the Manufacturer’s instructions for the specific equipment in use.

Safety Data Sheets for the gases being used should be available & understood.