

## PREVENTION MEASURES

### First example of prevention model

Activity	Danger	Hazardous events	Damage	Prevention measures
<p><b><u>Archaeological metals sandblasting</u></b></p> 	<ul style="list-style-type: none"> <li>- Glass micro granules (fine particles, dust, sediment, metal particles),</li> <li>- Lamps with heating bulbs (extreme temperature at workstations),</li> </ul>	<ul style="list-style-type: none"> <li>- Inhalation of fine particles,</li> <li>- Slippery floor,</li> <li>- Floor cleaning,</li> <li>- Sandblasting cabins not hermetic or airtight,</li> <li>- Cabins not equipped with correctly adjusted vacuums,</li> <li>- Window of the cabins in contact with the heat of the lamp,</li> </ul>	<ul style="list-style-type: none"> <li>- Lung problems,</li> <li>- Falls, fractured limbs,</li> <li>- Dispersion of the particles,</li> <li>- Fragile glass: it could crack/break at the least impact (flying debris and cuts),</li> </ul>	<ul style="list-style-type: none"> <li>- Hermetic cabins, ventilated, equipped with a suction pump for particles,</li> <li>- Non-slip floor (Duckboard),</li> <li>- Cleaning floors with water and a mop to avoid dispersing dust,</li> <li>- Vacuum cleaner with filters for fine particles,</li> <li>- Use LED light bulbs</li> </ul>
	<ul style="list-style-type: none"> <li>- Cabins and seats not ergonomic,</li> </ul>	<ul style="list-style-type: none"> <li>- Bad position, immobility, repetitive movements,</li> </ul>	<ul style="list-style-type: none"> <li>- Repetitive strain injury (RSI),</li> </ul>	<ul style="list-style-type: none"> <li>- Ergonomic cabins and seats,</li> <li>- Take a break to prevent joint problems,</li> </ul>
	<ul style="list-style-type: none"> <li>- Metallic archaeological objects (terrestrial and underwater),</li> </ul>	<ul style="list-style-type: none"> <li>- Heavy, bulky objects,</li> <li>- Objects covered with layers of corrosion ("rust", lead), sediments, biological agents,</li> </ul>	<ul style="list-style-type: none"> <li>- Injuries, cramps, sprains, crushing hands,</li> <li>- Skin damage, infections,</li> </ul>	<ul style="list-style-type: none"> <li>- Foam supports, ergonomic platform,</li> <li>- Wear neoprene gloves,</li> </ul>

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### Second example of prevention model

Activity	Danger	Hazardous events	Damage	Prevention measures
<p><u>Cleaning glass</u></p> 	<ul style="list-style-type: none"> <li>- Broken or cracked glass,</li> </ul> <p><i>Events that could cause this danger are:</i></p> <ul style="list-style-type: none"> <li>- Ceramic sinks,</li> <li>- Chemical residues on the sides of glass vessels,</li> <li>- Ringing phone, someone at the door,</li> </ul>	<ul style="list-style-type: none"> <li>- Handling chipped or cracked glass,</li> <li>- Wet and slippery sides of glass,</li> </ul> <p><i>Events that could cause this danger are:</i></p> <ul style="list-style-type: none"> <li>- Bottom of a ceramic sink,</li> <li>- Skin contact with chemical residues,</li> <li>- Removing gloves too quickly,</li> </ul>	<ul style="list-style-type: none"> <li>- Cuts, shattered glass flying everywhere,</li> <li>- Chemical burn hazard,</li> </ul>	<ul style="list-style-type: none"> <li>- Discard chipped or cracked glass in the broken glass container,</li> <li>- Use glassware such as Pyrex ®,</li> <li>- Use plastic or stainless steel containers depending on the chemicals,</li> <li>- Place a protective mat in the bottom of the sink,</li> <li>- Wear neoprene gloves,</li> <li>- Let the phone ring and listen to the message on the answerphone, or ask a colleague to open the door,</li> </ul>

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### Third example of prevention model

Activity	Danger	Hazardous events	Damage	Prevention measures
<p>Removal of dense and compact corrosion that mask and / or trap objects (terrestrial and underwater) by micro pneumatic chisel/engraver</p> 	<p>Vibration</p> <p>Noise</p> <p>Debris flying everywhere,</p> <p>Workstations and seats not ergonomic,</p> <p>Workstations not equipped with correctly adjusted vacuum,</p> <p>Lamps with heating bulbs,</p>	<p>Working for several hours with a micro pneumatic chisel</p> <p>Working in a noisy environment &gt; 85 dBa for several hours</p> <p>Inhalation of particles, Foreign bodies in eyes,</p> <p>Bad position, immobility, repetitive movements,</p> <p>Dispersion of the particles,</p> <p>Working under warm lighting,</p>	<p>Injuries, cramps, sprains, musculoskeletal disorders (MSD),</p> <p>Deafness,</p> <p>Lung problems, Eye injuries,</p> <p>Repetitive strain injury (RSI),</p> <p>Pollution of work area and for colleagues,</p> <p>Burns,</p>	<p>Wearing anti-vibration gloves, those that are commercially available are inadequate,</p> <p>Wearing ear protection, Create a soundproof room,</p> <p>Wearing FFP3 masks and goggles, Ergonomic workstations and seats, Take a break to prevent joint problems,</p> <p>Install appropriate vacuums at workstations</p> <p>Use LED light bulbs,</p>

**Easy to put in place measures: short-term**

**Measures more difficult to implement: medium Term**

**Difficult to implement measures (cost, equipment not available, etc.): long-term**