

## AU General Risk Assessment

<b>Brief Description of Activity:</b>			<b>Assessor/s:</b>			<b>Date:</b>
<b>WATER BOILERS</b> Water boilers are used to provide a constant supply of hot water. They can either be gas or electric.						
<b>Hazard:</b> <i>List what could cause harm from this activity, use appendix A to assist in identifying hazards</i>	<b>Persons at risk:</b> <i>List who might be harmed eg staff, students, visitors</i>	<b>Risk factor:</b> <i>For each hazard, decide level of risk as if you were to do the activity without controls, see appendix B</i>			<b>Control measures required:</b> <i>For each hazard. List the measures you will be taking to minimise the risk identified, e.g. appointing competent persons, training received, planning and try-outs, use of personal protective equipment</i>	<b>Residual Risk:</b> <i>For each hazard now decide the residual risk after the control measures are in place</i>
		Severity	Likelihood	Risk		
Damage to boiler causing leaks and possibly explosion	All	Severe	Unlikely	High	Operate boiler within its design merits. Documentation relating to the boiler plant should be consulted for operation and maintenance of the boiler. Only to be operated by a trained and competent person. Water level controls, burner controls, alarms and pressure-relief valves should be fitted if necessary. Routine testing as specified by the manufacturer should take place. A written scheme of examination should be produced and made readily available.	Low
Electricity	User	Severe	Unlikely	High	Do not operate switches with wet hands. In the event of a fault, isolate the electricity and water supply and report immediately. Do not use with a fault.	Low
Hot Liquids	User	Slight	Unlikely	Low	Fill containers carefully and do not overfill. Handle hot containers with oven gloves or cloths. Keep boilers full and do not allow them to boil dry.	Very Low
Gas	All	Severe	Unlikely	High	Maintain the gas supply in a safe condition. Appliances must be maintained in line with manufacturer;s recommendations. Installation and maintenance work must be undertaken by CORGI registered engineers. The gas supply must have a shut off valve located away from the appliance. Develop procedures for actuin to be taken in the event of a suspected gas leak. In the event of a fault, isolate from the water and gas supply and report immediately, Do not use with a fault.	Low
Signed		Date		<b>Date for review of risk assessment:</b>		

**Appendix A**

<b>Hazard list – Use this table to help you identify hazards, you may think of others not on this list, use these to complete the risk assessment form</b>					
<b>Situational hazards</b>	<b>Tick</b>	<b>Physical / chemical hazards</b>	<b>Tick</b>	<b>Health hazards</b>	<b>Tick</b>
Assault by person		Contact with cold liquid / vapour		Disease causative agent	
Attacked by animal		Contact with cold surface		Infection	
Breathing compressed gas		Contact with hot liquid / vapour		Lack of food / water	
Cold environment		Contact with hot surface		Lack of oxygen	
Crush by load		Electric shock		Physical fatigue	
Drowning		Explosive blast		Repetitive action	
Entanglement in moving machinery		Explosive release of stored pressure		Static body posture	
High atmospheric pressure		Fire		Stress	
Hot environment		Hazardous substance		Venom poisoning	
Intimidation		Ionising radiation			
Manual handling		Laser light		<b>Environmental hazards</b>	
Object falling, moving or flying		Lightning strike		Litter	
Obstruction / exposed feature		Noise		Nuisance noise / vibration	
Sharp object / material		Non-ionising radiation		Physical damage	
Shot by firearm		Stroboscopic light		Waste substance released into air	
Slippery surface		Vibration		Waste substance released into soil / water	
Trap in moving machinery					
Trip hazard		<b>Managerial / organisational hazards</b>			
Vehicle impact / collision		Management factors			
Working at height					

**Appendix B**

<b>Risk matrix – use this to determine risk for each hazard i.e. ‘how bad and how likely’</b>	<b>Likelihood of Harm</b>				
	<b>Remote</b>	<b>Very unlikely</b>	<b>Unlikely</b>	<b>Possible</b>	<b>Likely</b>
<b>Severity of Harm</b>					
<b>Negligible</b> e.g. small bruise	Very low	Very low	Very low	Low	Low
<b>Slight</b> e.g. small cut, deep bruise	Very low	Very low	Low	Low	Medium
<b>Moderate</b> e.g. deep cut, torn muscle	Very low	Low	Medium	Medium	High
<b>Severe</b> e.g. fracture, loss of consciousness	Low	Medium	High	High	Extremely high
<b>Very Severe</b> e.g. death, permanent disability	Low	Medium	High	Extremely high	Extremely high