

# Commercial Boiler Replacement RA 043

Consequence	5	10	15	20	25
	4	8	12	16	20
	3	6	9	12	15
	2	4	6	8	10
	1	2	3	4	5
Likelihood					

- Unacceptable – Stop activity
- Adequate – Monitor for continual compliance
- Acceptable – No further action / monitor

Risk Assessment:	043 Commercial Boiler Replacement
Assessors Name:	Gabriela Balint
Signature:	<i>Gabriela Balint</i>
Date:	January 2022
Review:	January 2023

## Location:

Likelihood	1 = Very unlikely	2 = Unlikely	3 = Fairly likely	4 = Likely	5 = Very likely
Consequence	1 = Insignificant	2 = Minor	3 = Moderate	4 = Major	5 = Catastrophic

Hazard	Who can be harmed & how	Risk Rating			Control measures in place	Residual Risk		
		L	C	R		L	C	R
Lack of competency	Persons undertaking the task and others who may be affected. Potential for serious injury / fatality through lack of experience.	3	4	12	Personnel have sufficient competence to undertake works in a safe manner or if being trained, supervised by a competent person. Contractors to be deemed competent to undertake given tasks prior to acceptance as approved supplier after approval of the pre-qualification questionnaire.	2	4	8
Movement of any item using manual handling.	Person undertaking the task. Serious musculoskeletal injury including hernias, back injuries and sprains etc.	5	4	20	All persons are trained in manual handling and follow training and instruction given. Personnel are instructed to use mechanical assistance wherever practically possible. Loads are broken down as far as is reasonably practicable and team lifting employed where necessary. Where larger loads are involved, a specific manual handling assessment will be required. Use of suitable gloves for loads involved.	2	4	8

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Work at height	Persons undertaking the task. Serious injury potential / fatality through falling from height	3	5	15	In line with training delivered, operatives are instructed in the following. All work at height is to be planned and only undertaken by competent persons or if being trained, supervised by a competent person. Personnel aware of fragile surfaces and open voids and edges ensuring adequate protection is in place. Work at height is not undertaken where weather conditions prohibit safe working. Use of suitable professional equipment only i.e. scaffold, podium steps, ladders and step ladders etc. For powered access equipment, a separate RA is required.	2	5	10
Use of substances hazardous to health	All personnel who use or may be affected by the use of hazardous substances, serious injury potential	3	4	12	Use of product information including COSHH assessments and manufacturers instructions on packaging. Use of authorised substances only. Use of suitable PPE and ventilation as determined in COSHH assessment / MSDS. Personnel to be aware of others who may be affected by the use of the substance. Substances are to be stored in original containers and stored in accordance with information outlined in COSHH assessments and MSDS.	2	4	8
Use of machinery	Persons using machinery at risk of serious injury through drawing in, collision or contact with moving parts	4	4	16	Persons trained in the use of type of work equipment in use. Equipment to be placed on firm level ground. Use of petrol driven equipment to take place in a ventilated area. Use of electrical equipment to be in line with requirements relating to electrical plant including PAT testing, RCD protected, use of transformer etc. Regular inspection of all work equipment pre use and at regular intervals.	2	4	8
Slips, trips and falls	Persons undertaking the task. Serious injury potential increasing due to MH activity.	4	4	16	Routes and areas are checked for obstructions and availability of space or other hazards i.e. wet floor, spillages, saw dust, uneven or slippery surfaces and cables etc. prior to use. Personnel aware of additional hazards that may lead to STF on the same level i.e. inadequate lighting, weather conditions, changes in surface etc. Good housekeeping standards are maintained and inspected at all times.	2	4	8

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Fire / explosion	All persons on site and others who may be affected i.e. emergency personnel etc. Potential for fatalities.	4	5	20	Site specific emergency plan drawn up and communicated to all personnel. Engineers to ensure that adequate extinguishers are in place and charged. Use of permit to work for hot works required ensuring all control measures are in place and followed. Means of raising the alarm in place. Continual monitoring.	1	5	5
Electrical works	Operatives and others e.g. property owners / users / other trades etc. Serious injury potential / fire / fatality etc.	3	5	15	All electrical work is undertaken by competent electricians or if being trained, supervised by a competent person. All electrical work is planned in advance and documented. Regular work in progress inspections and testing is undertaken and recorded. All materials are purchased through reputable suppliers. Suitable information, instruction and supervision is in place at all times. Minor electrical tasks undertaken by competent persons.	1	5	5
Use of or working in close proximity to noise emitting equipment	Personnel and others working in the vicinity of noise emitting equipment  Potential for long / short term hearing damage	5	4	20	Personnel are required to maintain noise emitting equipment in an efficient condition. Personnel are instructed in the use of sufficient PPE including the use, maintenance and storage of supplied hearing protection including the requirement to wear PPE in designated areas. Use of acoustic enclosures where practicable. Ensure that PPE is compatible with other items and does not detract from other hazards.	2	4	8

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<p>Use of vibrating equipment</p>	<p>Personnel and others working with vibrating equipment</p> <p>Potential for long / short term musculoskeletal damage i.e. vibration white finger.</p>	5	4	20	<p>The use of vibrating equipment is kept to a minimum through the use of best available technology &amp; task rotation SFARP. Where the use of such equipment is required, trigger times are recorded and measured against guidance.</p> <p>Personnel are required to report any effects from the use of vibrating machinery including numbness and tingling in order for occupational health professionals to be consulted as may be required.</p> <p>Hand arm vibration requires that where exposure action level of 2.5m/s<sup>2</sup> A (8) is evident, suitable technical and organisational measures shall be put in place to reduce exposure including assessing / using alternative equipment and / or task rotation.</p>	2	4	8
<p>Lifting &amp; use of lifting equipment</p>	<p>Persons using lifting machinery at risk of serious injury through drawing in, collision, loss of load or contact with moving parts</p>	4	5	20	<p>All works requiring the use of lifting equipment is to be planned taking into account size of load, route, training requirements, lifting equipment and accessories. Only competent persons allowed to undertake lifting operations in line with the specific lifting plan for the task. All equipment to have in place a certificate of thorough examination dated within the required time frames. Additional lifting accessories to be recorded on the lifting register and checked at regular intervals. Continual monitoring.</p>	2	5	10
<p>Contact with respirable dusts</p>	<p>All persons undertaking the task and others i.e. members of the public, clients, tenants and young persons.</p> <p>Potential for mild irritation through to long term adverse health effects including</p>	3	4	12	<p>All dust emitting operations are kept to a minimum with dust suppression employed as determined the best option at the location of the works. All operatives to have in date asbestos awareness training (refreshed annually) as a minimum.</p> <ul style="list-style-type: none"> <li>• In an enclosed area, the use of local exhaust ventilation is to be employed together with additional controls as may be required.</li> <li>• The use of on tool extraction / collection with controls mounted onto or integrated into the hand-held tool to capture dust emissions.</li> <li>• Dusts may be dampened down using either water or a suitable surfactant. Dampening down of works is to be continuous for the time the tooling is in use.</li> </ul>	1	4	4
						2	4	8
						1	4	4
						2	4	8

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	cancers, silicosis, COPD & emphysema				<ul style="list-style-type: none"> <li>Use of suitable and sufficient PPE from FFP1 standard mask for general dusts through to powered masks or hoods. Operatives to undergo fit testing to ensure the use of PPE is correct.</li> <li>Operative training in hazards and control measures associated with certain dusts i.e. silica and asbestos.</li> <li>Wherever practicable, materials to be cut away from site and in a controlled environment.</li> </ul>	2	4	8
Discovery of or damage to material that may contain asbestos.	Operatives / engineers and others who may be affected. Potential for serious long-term health problems	3	4	12	<p>All personnel are trained in asbestos awareness as a minimum and follow advice given during the training.</p> <p>Prior to personnel undertaking any work where asbestos may be present, the asbestos register shall be consulted. Where this is not available, a copy is to be requested from the client. Likely locations include pipework, flues, decorative textured coatings etc.</p> <p>Personnel are not permitted to undertake any works involving asbestos containing material unless trained in the correct procedures.</p> <p>Should any person come across any suspected asbestos containing material (ACM) they must stop work immediately and inform their line manager who should arrange for the client to be informed of the situation and await further advice.</p> <p>Should any person accidentally disturb any ACM, they must stop work immediately and inform their line manager of the situation. They will then complete the decontamination procedure as outlined in training and await further advice.</p> <p>Should an incident occur in an occupied premise, they shall close off the area without alarming the occupier. All clothing is to be removed and bagged as hazardous waste. Where possible the operative is to shower to remove any fibres, where this is not possible, they will wipe themselves down with a damp rag which is to be placed in the same bag as the contaminated clothing as per training given &amp; in line with EM7 / EM8 asbestos essentials.</p> <p>Any operative involved in an incident is to complete an accident / incident report form, following this they will be given further advice about informing their GP of the suspected contact with an ACM.</p>	2	4	8



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				<p>The company shall arrange through their client for an air test to be undertaken together with an analysis of the suspected ACM.</p> <p>All incident involving suspected contact or release of fibres shall be thoroughly investigated by the company with a file of the incident placed in the accident / incident folder which is maintained at head office.</p>			
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