

Risk Assessment & Method Statement

Gas Engineer RAMS – Boiler replacement and commissioning

Version: 1

PUBLISHED

Trade: Gas Engineer

Review Date: 29/10/2026

Basic Information

Organization: Apex Heating & Gas Ltd

Client: Merefield Facilities Management Ltd

Site: St Anselm Court Boiler Renewal - Manchester M1 2WD

Scope of Work

This RAMS covers Boiler replacement and commissioning at St Anselm Court Boiler Renewal. It sets out the planned sequence of work, foreseeable hazards, control measures, permits, PPE, COSHH arrangements, emergency actions, and supervision requirements. The supervisor must review this document with the site-specific induction, construction phase plan, drawings, permits, and changing conditions before work starts.

Persons at Risk

Operatives, supervisors, visitors, neighbouring trades, and members of the public near the work area.

Hazards & Risk Assessment

5 hazards identified

Gas leak / escape

Gas leak / escape can affect operatives and adjacent trades during Boiler replacement and commissioning. Controls are to be verified at the point of work by the supervisor.

Pre-Control: 14 (Medium Risk)

Post-Control: 5 (Low Risk)

Control Measures:

- Gas tightness test (let-by / drop)
- Leak detection fluid
- Emergency procedure in place
- Brief operatives at the daily start-of-shift coordination meeting and stop work if conditions change.

Carbon monoxide exposure

Carbon monoxide exposure can affect operatives and adjacent trades during Boiler replacement and commissioning. Controls are to be verified at the point of work by the supervisor.

Pre-Control: 13 (Medium Risk)

Post-Control: 4 (Low Risk)

Control Measures:

- Personal CO detector worn
- Combustion analyser used
- Adequate ventilation
- Brief operatives at the daily start-of-shift coordination meeting and stop work if conditions change.

Ignition sources near gas

Ignition sources near gas can affect operatives and adjacent trades during Boiler replacement and commissioning. Controls are to be verified at the point of work by the supervisor.

Pre-Control: 12 (Medium Risk)

Post-Control: 3 (Low Risk)

Control Measures:

- No hot works nearby
- Anti-static precautions
- Gas detector deployed
- Brief operatives at the daily start-of-shift coordination meeting and stop work if conditions change.

Inadequate ventilation

Inadequate ventilation can affect operatives and adjacent trades during Boiler replacement and commissioning. Controls are to be verified at the point of work by the supervisor.

Pre-Control: 11 (Medium Risk)

Post-Control: 3 (Low Risk)

Control Measures:

- Air vent checks
- Spillage test performed
- CO alarm fitted
- Brief operatives at the daily start-of-shift coordination meeting and stop work if conditions change.

Burns from hot surfaces

Burns from hot surfaces can affect operatives and adjacent trades during Boiler replacement and commissioning. Controls are to be verified at the point of work by the supervisor.

Pre-Control: 10 (Medium Risk)

Post-Control: 3 (Low Risk)

Control Measures:

- Allow appliance to cool
- Protective gloves
- Awareness signage
- Brief operatives at the daily start-of-shift coordination meeting and stop work if conditions change.

Method of Work

7 steps outlined

1

Carry out site survey and safety check

Related hazards: Gas leak / escape

2

Isolate gas supply

Related hazards: Carbon monoxide exposure

3

Perform tightness test

Related hazards: Ignition sources near gas

4

Execute job (install / service / repair)

Related hazards: Inadequate ventilation

5

Test and commission appliance

Related hazards: Burns from hot surfaces

6

Record results and issue certificate

Related hazards: Burns from hot surfaces

7

Handover to client

Related hazards: Burns from hot surfaces

Personal Protective Equipment & Permits

PPE Required

Hard hat

Gas monitor

Safety glasses/goggles

Steel toe-capped boots

Permits Required

Gas isolation permit

Commissioning sign-off

COSHH Assessments

Control of Substances Hazardous to Health

Leak detection fluid

Use: Checking joints and fittings during gas commissioning.

Exposure: Skin contact, eye contact

Controls:

- Use in line with SDS
- Store upright
- Wear gloves and eye protection

SDS: <https://rams-builder.app/sds/examples/gas-engineer-leak-fluid.pdf>

Emergency Procedures

First Aid

Stop work, make the area safe, and contact the appointed first aider via the site emergency number confirmed at induction. The supervisor must report serious incidents to Apex Heating & Gas Ltd management and prevent work restarting until the area is safe.

Fire Emergency

Raise the site alarm, stop the task, isolate energy sources only where safe, and proceed by the signed escape route to the designated assembly point. Do not attempt firefighting unless trained and it is safe to do so.

Spill Response

Stop the source if safe, cordon the area, and use the site spill kit or absorbent materials specified by the relevant SDS. Prevent entry to drainage, segregate contaminated waste, and report the event to the supervisor.

Nearest Accident & Emergency

Nearest A&E and the agreed emergency vehicle access point must be confirmed during the St Anselm Court Boiler Renewal induction, recorded in the daily briefing, and communicated to all operatives.

Signatures & Approvals

This document has been reviewed and approved by:

Hannah Price

Gas Engineer Supervisor

03/08/2026, 10:30:00

Demonstration document using fictional project information. It must be reviewed, adapted, and approved for the actual site before work commences.

All operatives must be briefed on the hazards and control measures that apply to the live task.