

Risk Assessment & Method Statement

Welder / Fabricator RAMS – Structural steel repair welding

Version: 1

PUBLISHED

Trade: Welder / Fabricator

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Basic Information

Organization: Forgepoint Fabrication Ltd

Client: Redbridge Industrial Services Ltd

Site: Redbridge Materials Handling Upgrade - Newcastle NE1 4LP

Scope of Work

This RAMS covers Structural steel repair welding at Redbridge Materials Handling Upgrade. 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

4 hazards identified

Welding fume and respiratory exposure

Welding fume and respiratory exposure can affect operatives and adjacent trades during Structural steel repair welding. 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:

- Select suitable local exhaust ventilation
- Keep the work area ventilated
- Use suitable RPE where the assessment requires it
- Brief operatives at the daily start-of-shift coordination meeting and stop work if conditions change.

Arc flash, UV radiation and burns

Arc flash, UV radiation and burns can affect operatives and adjacent trades during Structural steel repair welding. 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:

- Use suitable welding PPE
- Screen the work from others
- Handle hot metal with appropriate tools and gloves
- Brief operatives at the daily start-of-shift coordination meeting and stop work if conditions change.

Fire and explosion from hot work

Fire and explosion from hot work can affect operatives and adjacent trades during Structural steel repair welding. 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:

- Follow the site hot-work permit process
- Remove or protect combustibles
- Provide fire-fighting equipment and fire watch arrangements
- Brief operatives at the daily start-of-shift coordination meeting and stop work if conditions change.

Gas cylinders and electrical equipment

Gas cylinders and electrical equipment can affect operatives and adjacent trades during Structural steel repair welding. 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:

- Secure and transport cylinders correctly
- Check hoses, regulators and flashback protection
- Inspect leads and isolate equipment before maintenance
- Brief operatives at the daily start-of-shift coordination meeting and stop work if conditions change.

Method of Work

6 steps outlined

1

Review the drawing, materials, location and site hot-work controls

Related hazards: Welding fume and respiratory exposure

2

Set up screens, ventilation, fire precautions and exclusion area

Related hazards: Arc flash, UV radiation and burns

3

Inspect welding equipment, leads, hoses and cylinders

Related hazards: Fire and explosion from hot work

4

Cut, prepare and assemble materials

Related hazards: Gas cylinders and electrical equipment

5

Complete welding or fabrication to the agreed sequence

Related hazards: Gas cylinders and electrical equipment

6

Inspect the work, complete the fire watch and leave the area safe

Related hazards: Gas cylinders and electrical equipment

Personal Protective Equipment & Permits

PPE Required

Welding helmet

Welding gauntlets

Flame-resistant clothing

Safety footwear

Permits Required

Hot works permit

Gas cylinder check

COSHH Assessments

Control of Substances Hazardous to Health

Welding fume

Use: Generated during steel repair welding.

Exposure: Inhalation

Controls:

- Use local exhaust ventilation
- Position work to avoid fume
- Use suitable RPE where assessed

SDS: <https://rams-builder.app/sds/examples/welder-fabricator-fume-control.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 Forgepoint Fabrication 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 Redbridge Materials Handling Upgrade induction, recorded in the daily briefing, and communicated to all operatives.

Signatures & Approvals

This document has been reviewed and approved by:

Callum Reeves

Welder / Fabricator Supervisor

03/08/2026, 09:30:00

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.