

Credit 2.3 Health Impacts Declaration

Guidance on using this template

This template is mandatory for Applicants targeting Credit 2.3 Health Impacts Declaration in the SSA Certification Program. Applicants are to complete this template for the downstream life cycle stages (transport, installation, use and maintenance, and end of life) of the product. The intent of the declaration is to ensure the safety of all downstream handlers and users of the final product once it is manufactured. This template does not address the manufacturing (fabrication, roll forming, processing etc) stage of the product.

Applicants are to identify and address all existing and potential biological, chemical and physical hazards for each downstream lifecycle phase. Applicants should provide supporting documentation (e.g Safety Data Sheet (SDS), risk assessments, hazardous chemicals register) to justify the information included in this template. All hazards and mitigating actions should be clearly explained within the text boxes in this template. Please note that known hazards of the product must be addressed, even if these have not been included in an SDS (if available).

Glossary of terms

Biological Hazards

Any biological substance that poses a threat to the health of people, animals, or the environment. These hazards can include bacteria, viruses, biological toxins, fungi, or bio-active substances etc.

Chemical Hazards

Any chemical substance or mixture that can pose a threat to human health, safety or the environment. Chemical hazards can be solid, liquid, or gas, and can cause harm to anyone directly exposed, usually through inhalation, ingestion, or direct contact to the skin.

Health Hazards

A health hazard is a biological, chemical, or physical factor that can have either short or long-term negative impacts on human health. This includes contaminated drinking water, exposure to toxic or carcinogenic substances, to dust or mould, to viruses or contagious diseases etc.

Physical Hazards

A hazard that can cause physical harm with contact. This could include working in conditions that are too hot or too cold, vibration and noise hazards, working with explosive or flammable materials, manual handling, sharp objects, trip hazards etc.

Safety Data Sheet (SDS)

A safety data sheet contains comprehensive information about the properties of hazardous substances, the potential risks to health and safety, and how to manage these risks.

General Information

Company and Site Name: Apex welding

Targeting Level 2B

Targeting Level 3

Product Name: Steel Structure

Description of product:

Fabricate and install structural steel

Submission Requirements

Safety Data Sheet

Is a Safety Data Sheet (SDS) available for the **finished product**?

Yes – If an SDS is available for the **finished product**, Applicants are to attach this with their submission for this credit, ensuring all hazards, risks and controls have been clearly identified in the SDS. A summary of the SDS information is to be included in this template submission.

No – If an SDS cannot be provided for the **finished product**, Applicants must clearly identify all existing and potential hazards associated with each downstream life cycle stage for the product. The method of identification of the hazard and the safeguards to mitigate the identified hazards are also to be provided.

Lifecycle phases to be assessed

Identify and assess the physical and chemical hazards of the product in each of the following lifecycle phases in the Physical Hazards and Chemical Hazards tables below:

- Transport
- Installation
- Use and maintenance
- End of life

Clearly described all hazards and risks in the box below**Handling steel (plates, beams, rods):**

- *Hazards:* Manual handling, awkward postures, repetitive lifting.
- *Risks/Impacts:* Musculoskeletal injuries, strains, sprains, back injuries.

Cutting steel (saws, shears, plasma cutters):

- *Hazards:* Sharp edges, flying metal shards.
- *Risks/Impacts:* Lacerations, puncture wounds, eye injuries.

Moving steel with forklifts or cranes:

- *Hazards:* Collision, dropping load, pinching.
- *Risks/Impacts:* Crush injuries, fractures, fatality risk.

Grinding and finishing steel:

- *Hazards:* Flying sparks, dust, noise.
- *Risks/Impacts:* Eye injuries, burns, respiratory issues, hearing loss.

Storing materials:

- *Hazards:* Poor stacking or unstable loads.
- *Risks/Impacts:* Collapse of materials, crush injuries.

Arc welding (MIG, TIG, etc.):

- *Hazards:* UV/IR radiation, electric shock.
- *Risks/Impacts:* Burns, eye damage (arc eye), electrocution.

Exposure to welding fumes (steel, galvanized, coated steel):

- *Hazards:* Metal fumes (iron, zinc), particulate inhalation.
- *Risks/Impacts:* Respiratory diseases, metal fume fever, chronic lung conditions.

Hot work operations:

- *Hazards:* Sparks, molten metal.
- *Risks/Impacts:* Fire, burns, explosion (if flammable materials nearby).

Compressed gas cylinders:

- *Hazards:* Gas leaks, improper storage or handling.
- *Risks/Impacts:* Explosion, asphyxiation, chemical exposure.

Health Impact - Physical Hazards

List the identified physical hazards for the relevant lifecycle phases, an example is provided below:

Health Impact Identified	Method of Identification	Safeguards	Transport	Installation	Use and Maintenance	End of life
Body cuts from sharp edges of steel	Onsite Risk Assessment	PPE (gloves, long sleeves), edge guards, training	✓	✓	✓	
Body crush/injury from steel falling/rolling off trucks	Onsite Risk Assessment	Exclusion zones, securing loads, spotters		✓	✓	
Muscle strain from lifting	Onsite Risk Assessment	Manual handling training, mechanical lifting aids		✓	✓	✓
Burns from welding or hot steel	Job Safety Analysis (JSA)	PPE (welding gloves, apron, helmet), hot work permits		✓	✓	
Eye injury from sparks, flying metal, or dust	JSA / Risk Assessment	Safety goggles/face shields, screens, training		✓	✓	✓
Hearing damage from cutting, grinding, and welding	Noise Assessment	Hearing protection, noise barriers, scheduled breaks		✓	✓	✓
Crush injury from forklifts, cranes, or moving equipment	Risk Assessment	Operator training, exclusion zones, spotters	✓	✓		

Additional information:

Cutting and Welding Hazards: Welding and cutting are integral parts of steel fabrication but come with their own set of hazards. These activities generate heat, sparks, burns, arc flash and fumes that can pose fire hazards and respiratory risks. Adequate ventilation, personal protective equipment (PPE), and proper training in welding and cutting techniques are essential to mitigate these hazards.

Crush Hazards are a significant concern during steel fabrication due to the heavy components involved can cause crush injuries if workers are caught in between or under them. Proper lifting techniques, rigging equipment, safe work zones, communication between workers can help prevent these hazards.

Noise Hazard: Are a concern on construction sites, appropriate Personal Protective Equipment (PPE) such as hearing protection, earplugs or earmuffs are properly fitted, maintained, and worn consistently in areas, to reduce the exposure to high noise levels.

Weather Conditions: Adverse weather conditions, such as high winds, rain, or extreme temperatures can pose significant risks during outdoor steel erection activities and can increase the risk of falls, structural instability, and other hazards. Regularly monitor weather forecasts and conditions to anticipate and prepare for adverse weather events. The use of weather monitoring tools or apps to stay informed about changes in wind speed, precipitation, temperature, and other relevant factors. Workers should be trained on how to work safely in various weather conditions and follow appropriate safety protocols

Supporting documentation

List documentation to support the above statements and upload the evidence in Credit 2.3.

Supporting Documentation <i>Name of document and location in submission</i>	Reference <i>Page no. or section of supporting document</i>	Description of Evidence
Safety walk, safety meetings	<i>dash pivot from WHSE18,19,20, 22</i>	<i>The from and register for safety walk hazard, safety toolbox meetings and incident investigation and register</i>
Site toolbox records	APEX-HSE-017	Site toolbox meeting to identify hazard and assess the risk for daily activities on site
installation and erection checklist form	QC-SIC	The check points and sequence and hazards assessment and completed form for site activities
MSDS and hazardous substance register	MSDS booklet	The physical booklet with all materials safety data sheet available to all employees and being updated once every year

Health Impact - Chemical Hazards

List the identified chemical hazards for the relevant lifecycle phases:

Health Impact Identified	Method Of Identification	Safeguards	Transport	Installation	Use and Maintenance	End of life
Respiratory irritation, skin burns, eye damage, chemical poisoning	<i>Risk assessment, Safety Data Sheets (SDS),</i>	<i>PPE (gloves, goggles, respirators), ventilation, safe handling procedures, emergency wash stations</i>		✓	✓	✓
Inhalation of vapours, skin/eye contact,	<i>Safety Data Sheets (SDS), Risk assessment</i>	<i>Secure containers, proper labelling, outside dedicated storage, use respiratory mask, gloves and eye protection full face cover, full body cover cloth,</i>		✓	✓	✓
fire/explosion, chemical burns	<i>Safety Data Sheets (SDS), Risk assessment</i>	<i>Segregation of combustible chemicals, ventilation, outside dedicated storage area, separation of other combustible elements</i>		✓	✓	✓
Weld gas fume	<i>Risk assessment, Safety Data Sheets (SDS), lab testing</i>	<i>Use torch extraction unit and workshop ventilation</i>		✓	✓	✓

Additional information:

Fumes Exposure safety is crucial during steel fabrication activities, especially considering the welding and cutting processes involved. Torch extraction units and workshop ventilation are Set up to remove welding and cutting fumes from the work area. Ensure that ventilation systems are properly maintained and functioning correctly to minimize fume exposure.

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Environmental aspect control	EAC for chemicals, Dust, Noise, housekeeping,	Assessment of environment affect and safety controls for noise, chemical and Dust
work environment risk assessment	Register and risk assessment	



Version control

Version	Document Name	Date	Changes	Author	Reviewer
1	Health Impacts Declaration	13/12/22	For use	KJ	JB
1.1	Health Impacts Declaration	17/11/23	Allowed permissions to edit all relevant areas	JB	nil
1.2	Health Impacts Declaration	22/11/23	Resized text boxes to fit text	JB	nil
1.3	SSA Credit 2.3 - Health Impacts Declaration	01/08/24	Changed document name. Revised permissions to edit relevant areas & formatting amendments	MC	nil
1.4	SSA Credit 2.3 - Health Impacts Declaration	01/01/2025	Revised format on page 1 to improve user experience	MC	nil