



Job Safety Analysis Cover Sheet – Concrete Placement

The attached Job Safety Analysis (JSA) is advisory only, and is for the use of the party to whom it is addressed and for no other purpose. No responsibility is accepted or undertaken to any third party who may use or rely on the content of this JSA. No responsibility is accepted or undertaken for any decisions made by the addressee in relation to site safety, whether made on the basis of this JSA or otherwise.

Company Name: This JSA has been prepared by Safe Job WA (Tel: 0402293790) in consultation with the above named company.	Project Details: The attached JSA applies to all company projects.
Equipment to be used in the works: PPE Hand tools Small power tools Electrical equipment	Qualifications required to do the work: (please tick) ☐ White card – 3 yearly Safety Awareness Training. ☐ Certificate of competency (please specify) ☐ Other (please specify)
Risk Raking (RR): Refer to JSA for risk ranking number 1, 2 or 3. (left column) RR # 1 - High level of harm (Consequence - death, permanent disability). RR # 2 - Medium level of harm (Consequence - potential temporary disability). RR # 3 - Low level of harm (Consequence - incident that has the potential to require persons to receive first aid). Residual risk rate (RRR): Refer to JSA for residual risk number.. Note - This is a risk that remains after all practicable efforts have been made to mitigate or eliminate risks associated with the activity.	
Notes:	

- () OSH ACT 1984
- () OSH REGULATIONS 1996
- () CODES OF PRACTICE WA – for example; manual handling code, prevention of falls code, relevant Australian Standards etc.
- () OTHER - add titles of any other relevant safety documents below.



Job Safety Analysis

➔ Concrete Placement

Before this JSA is used it must be checked and adjusted to suit the subcontractor's work method as long as hazards are identified and controlled. Additional steps will need to be added or modified to suit particular circumstances. The main function of this JSA is to identify unsafe conditions and work practices and nominate adequate controls. If required, add any additional hazards and detail the method of control for each additional hazard. Attach additional pages if space insufficient.

JSA → Concrete Activity

Job Step	1. Delivery stacking and storage of materials. RISK RATE 1
Potential Hazard	Various harm potential
Controls	➤ Ensure all loose and packed materials are delivered and stacked in a safe position on site. ➤ Pre-start planning activities to address the following potential hazardous site situations.
Residual Risk	2
Responsible	Delivery company and driver and Concreting Contractor
Risk Rate	1
Job Step	2. Working outdoors. RISK RATE 1
Potential Hazard	Ultra violet radiation can cause skin cancers
Controls	➤ Provide adequate personal protective equipment e.g. hats, protection and SPF30+ sun cream. ➤ Provide adequate training on preventing skin cancers. ➤ Supervise and ensure workers maintain good work practices.
Residual Risk	2
Responsible	Concreting Contractor
Job Step	3. Manual handling. RISK RATE 1
Potential Hazard	Manual handling problems e.g. pulled muscles and strained backs
Controls	➤ Provide adequate training on manual handling risks. ➤ Ensure team lifts. ➤ Ensure assistance is available if required. ➤ Ensure materials are located close to work-face. ➤ Promote the use of mechanical devices when moving materials. ➤ Use planks on soft sand to create firm surfaces for wheelbarrows and brick barrows etc. ➤ Ensure proper planning and consideration to situations where work is to be carried out in sloping areas and to the transportation and the positioning of materials in sloping areas or when there are gradients.
Residual Risk	2
Responsible	Concreting Contractor
Job Step	4. Public Safety. RISK RATE 1

Potential Hazard	Public safety and potential harm that can be caused to members of the public
Controls	➤ Advise workers about public safety issues. ➤ Consider adequate means to prevent members of the public from entering work areas. ➤ Ensure materials, rubbish and vehicles do not impede public accessways. ➤ Ensure housekeeping standards are adequate to prevent members of the public from slipping or tripping on concreting materials or associated discarded rubbish. ➤ Ensure work areas are left clean and safe at the end of each working day.
Residual Risk	2
Responsible	Concreting Contractor
Job Step	5. Housekeeping. RISK RATE 1
Potential Hazard	Various injuries caused by trips and slips
Controls	➤ Ensure workers are trained in good housekeeping practices. ➤ Ensure regular clean-ups occur throughout the working day and at the conclusion of daily work. ➤ Ensure discarded materials and rubbish is placed bins provided. ➤ Ensure public access ways are not impeded by rubbish from concreting activity. ➤ Ensure over spill and concrete waste is not placed in access areas.
Residual Risk	2
Responsible	Concreting Contractor
Job Step	6. High speed blades etc. RISK RATE 1
Potential Hazard	Lacerations caused through contact with high speed blades e.g. cutting tools, circular saws etc.
Controls	➤ Ensure operators of cutting equipment are adequately trained in safe use of relevant machine/ tool. ➤ Provide and ensure adequate personal protective equipment, i.e. eye, ear, respiratory, hand and foot protection. (Footwear will have adequate tread). ➤ Ensure the proper fitting of blades and associated equipment and replace when damaged or worn out. ➤ Ensure equipment and tools are used only to the specifications recommended by the manufacturer. ➤ Ensure public safety is not compromised when using high speed blades / discs and the work is not carried out on or near public access ways.
Residual Risk	2
Responsible	Concreting Contractor
Job Step	7. Fire Safety. RISK RATE 1

Potential Hazard	Burns from highly flammable liquids e.g. petrol used for tools / equipment
Controls	Ensure proper precautions are taken when using highly flammable liquids (HFL's). ➤ No smoking when handling HFL's. ➤ Safe decanting procedures. ➤ Proper storage and transportation of fuel procedures. ➤ Ensure a suitable fire extinguisher is available.
Residual Risk	2
Responsible	Concreting Contractor
Job Step	8. Electrical. RISK RATE 1
Potential Hazard	Burns and electric shock caused through contact with electrical sources
Controls	➤ Ensure all electrical equipment is tested and tagged by a licensed electrician on a quarterly basis. ➤ Ensure all equipment is protected through the use of an appropriate Residual Current Device (RCD). ➤ Ensure “domestic” electrical appliances are not used on site, i.e. double adaptors, multi- board outlet devices, and domestic leads/cords. ➤ Ensure homemade electrical devices e.g. leads are not used. ➤ Ensure leads containing the colour green are not used. ➤ Ensure leads do not extend 30m. ➤ Ensure leads are elevated to prevent trips and slips occurring to site personnel. ➤ Ensure leads are protected from physical damage e.g. site traffic, wheel and brick barrows, falling objects, and wet/damp conditions. ➤ Ensure all workers are advised through suitable training of the above safety issues. ➤ Ensure all workers are advised of the dangers of working near overhead powerlines especially when handling or using long lengths of conductible construction equipment and materials.
Residual Risk	2
Responsible	Concreting Contractor
Job Step	9. Eye damage and lacerations when working with sharp edges / points and cement / lime. RISK RATE 1
Potential Hazard	Lacerations and burns causing eye injuries
Controls	➤ Ensure eye protection is worn when there is a danger of eye injury from any source.
Residual Risk	2

Responsible	Concreting Contractor
Job Step	10. Chemicals
Potential Hazard	Various harm potential when working with wet or dry cement, lime and cement additives including texture works.
Controls	➤ Ensure current Material Safety Data Sheets (MSDS) no older than five (5) years are available. ➤ Ensure workers using the materials are trained and aware of the dangers associated with the chemical used. ➤ Ensure PPE referred to in MSDS is available when chemical(s) are use.
Residual Risk	2
Responsible	Concreting Contractor
Job Step	11. Machine Safety. RISK RATE 1
Potential Hazard	Various harm potential when using machinery
Controls	➤ Ensure all machines used e.g. cutting tools etc. are in good working condition and that all guards are fitted and operable. ➤ Concrete workers will not operate levers or other equipment on concrete pumps or trucks, and will follow safety instructions issued by machine operators.
Residual Risk	2
Responsible	Concreting Contractor
Job Step	12. Working at heights. RISK RATE 1
Potential Hazard	1. Fall from ladder 2. Fall from or through scaffold

Controls	Ensure the following standards when using ladders; ➤ Secure ladders at all times. ➤ Ladders will extend 1m above landing platform. ➤ Ladders will comply with Australian Standards (AS) and be in good condition. ➤ Ladders will be erected at a 4:1 ratio and be stable. Ensure the following when using scaffolding; ➤ Erect scaffolding in accordance with required standard. ➤ Builder to Ensure scaffolds of 4m > are erected by a licensed scaffolder. ➤ Ensure workers are advised of alteration procedure, i.e. do not interfere with scaffold that is higher than 4m unless qualified, get a qualified scaffolder to make the alteration. ➤ Do not remove braces, handrails / midrails, planks, fender boards, infill mesh. ➤ Do not place tools, gear or materials near open edges. ➤ Ensure workers are advised to report scaffolding hazards to their immediate supervisor. ➤ Ensure weight limit of 675kg per bay is not exceeded. ➤ Ensure scaffold platform is cleared of all rubbish at completion of work and rubbish placed in designated area. ➤ Ensure workers are advised not to throw or drop materials gear or tools from scaffolding. ➤ Ensure moveable handrails are closed when not in use. ➤ Ensure workers using scaffold are advised not to climb scaffold frame to access platform. ➤ Ensure open edges of 2m and greater are edge protected.
Residual Risk	2
Responsible	Concreting Contractor
Job Step	13. Use of materials hoist. RISK RATE 1
Potential Hazard	Various harm potential

Controls	➤ Ensure materials hoist is installed to OSH Regulations (1996) and logbooks are maintained as required. ➤ Ensure hoist barriers, edge protection and signage is maintained. ➤ Ensure moveable handrails at slab edge are replaced after hoist leaves that level. ➤ Ensure workers are advised not to ride on hoists. ➤ Ensure safe systems of work when loading / off loading hoists. ➤ Ensure proper access / egress onto hoist platform at base level and at subsequent levels. ➤ Ensure security gates are closed / locked as required. ➤ Ensure base level guarding and overhead protection is maintained. ➤ Ensure operator is trained and competent and in the case of hoists travelling in excess of 11m that the operator is certified. ➤ Ensure hoist is isolated at end of each working day (remove key and turn off power source).
Residual Risk	2
Responsible	Concreting Contractor
Job Step	14. Traffic Management. RISK RATE 1
Potential Hazard	1. Struck by moving vehicles 2. Risk of traffic collision
Controls	➤ As required a Traffic Management Plan will be implemented to separate workers from moving vehicles. ➤ As a minimum requirement, all workers will wear hi-visibility clothing when working on or near roads. ➤ Cones, signs and barriers will be used, as required, to establish work zones. ➤ Safe parking of work vehicles and positioning of materials will be considered prior to the commencement of work activity the movement of public traffic will not be impeded or jeopardized by the work.
Residual Risk	2
Responsible	Concreting Contractor
Job Step	15. Use of T bars and J hooks. RISK RATE 1
Potential Hazard	Various harm potential
Controls	The combined weight of the hose and concrete flow will be controlled through the use of T bar and J hook operators. ➤ Operators will not be removed from the task whilst concrete is being placed. ➤ Persons will be trained in the use of T bars and J hooks. ➤ Proper strategies will be implemented when the hose has to be lifted over walls etc or when blockages occur in the hose.
Residual Risk	2
Responsible	Concreting Contractor

Job Step	16. Pumping Concrete. RISK RATE 1
Potential Hazard	Various harm
Controls	➤ When concrete is to be pumped warnings will be provided by the operators of the pump and truck that pumping is about to commence. ➤ Concrete will not be pumped until the hose operator is ready. ➤ Workers involved in the process will be trained and supervised at all times. ➤ Checks will be made to ensure air is not trapped in the hose due to blockage etc. ➤ All hoses to be checked to ensure good condition and good connections. ➤ All connecting pipes will be adequately secured through proper fitting of approved safety pins designed for the purpose. ➤ All hoses will be secured to prevent excessive movement and the manufacturers recommendations will be complied with at all times. ➤ Pipe pressure will not be exceeded and pipes will be supported where there is a change of direction.
Residual Risk	2
Responsible	Concreting Contractor
Job Step	17. Access on reo work. RISK RATE 1
Potential Hazard	Trips and falls
Controls	➤ Workers will be advised to be vigilant when walking on reo work. ➤ Boot laces will be tied. ➤ Ensure safe stepping at all times. ➤ Plank over / cover deep beams and penetrations as required.
Residual Risk	2
Responsible	Concreting Contractor
Job Step	18. Sharp Edges. RISK RATE 1
Potential Hazard	Lacerations / cuts
Controls	➤ Cap all relevant vertical reo bars. ➤ Turn down wire ties to prevent finger / hand injuries and stabbing wounds.
Residual Risk	2
Responsible	Concreting Contractor
Job Step	19. Various Concreting Activities. RISK RATE 1
Potential Hazard	Various harm potential

Controls	➤ Vibrator use – Ensure good stance and manual handling positions when using vibrator. ➤ Wheeling concrete – Ensure firm hard surfaces when pushing laden wheel barrows and don't over fill. ➤ Shovelling / Raking – Ensure easy workability of the concrete. Adopt good stance and posture and manual handling techniques. ➤ Screeding concrete – Use mechanical screed where possible. Ensure easy workability of the concrete. Ensure good clearance around the perimeter of the work area. ➤ Use of bull float – Ensure good posture and stance when using equipment. ➤ Hand trowelling – Engage in good manual handling techniques. ➤ Use of helicopter float – Ensure operators are trained in use of equipment. Ensure safe fuelling practices Wear industrial / enclosed footwear and safety eye wear.
Residual Risk	2
Responsible	Concreting Contractor
Job Step	20. Training information and instruction. RISK RATE 1
Potential Hazard	Various harm
Controls	➤ All workers will be in possession of a current White card no older than 3 years from the date of issue stated on the card. (Call Safe Job WA on 0402 293 790) ➤ It is recommended that all workers will be provided with specific toolbox training on the content of this documentation.
Residual Risk	2
Responsible	Concreting Contractor
Job Step	21. Consultation and cooperation on OSH matters. RISK RATE 1
Potential Hazard	Various harm potential identified by site Supervisory staff
Controls	Adhere to site safety instructions as issued in the interests of site safety from time to time by site supervisory staff.
Residual Risk	2
Responsible	Concreting Contractor and Building Supervisor
Job Step	22. Personal Protective Equipment. RISK RATE 1
Potential Hazard	Various harm potential can be caused to parts of the body
Controls	All workers will wear the following PPE (as required) when working on-site; ➤ Safety helmet (where applicable).

	➤ Safety footwear. ➤ Hi visibility vest. ➤ Industrial gloves. ➤ Hearing protection. ➤ Eye protection. ➤ Respiratory protection. ➤ Knee Pads. ➤ Fall Injury Prevention Device (where applicable). As a minimum all workers will be required to wear safety helmets and safety footwear. All PPE provided must comply with the relevant Australian Standard (AS).
Residual Risk	2
Responsible	Concreting Contractor
Job Step	23. Conclusion of Concreting activity. RISK RATE 1
Potential Hazard	Various harm potential
Controls	At the conclusion of all Concreting activity the following will occur; ➤ Remove any waste / rubbish and place in the bin provided. Particular attention to be made to scaffold platforms internally, areas below scaffolding and areas accessed by members of the public. (Where standards are not met the site supervisor will ensure the contractor returns to site to complete the requirements outlined above).
Residual Risk	2
Responsible	Concreting Contractor
Job Step	24. Tool box talks. RISK RATE 1
Potential Hazard	Various harm potential if information and recognition of individual responsibility is not addressed
Controls	A critical element of the work involves the work force being provided with adequate information instruction and training. This is considered a significant job step and as such it is strongly recommended that the subcontractor conducted tool box talks with each member of his team; ➤ Upon commencement ➤ At least 6 monthly ➤ As required by the contractor See following pages for suggested documentation
Residual Risk	2
Responsible	Concreting Contractor

Job Step	25. Supervision. RISK RATE 1
Potential Hazard	Lack of adequate supervision on the job can contribute to accident potential
Controls	The contractor will appoint a nominated person to take charge of each project. This person will be a qualified tradesman who's primary responsibilities will include the following; ➤ Ensuring quality workmanship. ➤ Ensuring satisfactory productivity levels. ➤ Ensuring compliance with the company JSA. The person shall lead by example and issue fair and reasonable instructions to his team as required and in the interests of establishing and maintaining a safe and productive workplace. Team members have a responsibility to comply with any fair and reasonable safety instruction as required by the company and its representatives.
Residual Risk	2
Responsible	Concreting Contractor

JSA → Concreting Contractor (Notes)

1. Employees and Subcontractors ofto be provided with an overview of and opportunity to read the above JSA. This to be done at a sub-contractor organized tool box talk.
2. All persons to whom this JSA applies to be advised that further explanation can be provided if required.
3. Attendance at tool box talks is compulsory.
4. A tool box talk should be carried out upon commencement with the company and 6 monthly thereafter.
5. All persons who attend a tool box talk are required to sign and date attached record of attendance.

JSA → Concreting Contractor (Tool box talk)

Record of attendance register as required please copy this page to include names/ signatures.

As required I have read and I understand the contents of the above JSA for(insert name of subcontractor) and where practical I will work positively towards ensuring a safe place of work and will follow all fair and reasonable instructions as issued by relevant Supervisors and Managers.

Names (please print)

Signatures

Date

1.....

2.....

3.....

4.....

5.....