

Telemetry Setup In Farm Equipment Risk Assessment

Business Name:	ABN:	
Business Address:		
Contact Person:	Phone:	Email:

THIS RISK ASSESSMENT IS APPROVED BY THE PCBU ON THE PROJECT

Under the Work Health and Safety Regulation (WHS Regulation), a person conducting a business or undertaking (PCBU) is required to ensure that a RISK ASSESSMENT is prepared before the proposed work starts.

Full Name:		
Signature:	Title:	Date:

CLIENT OR PRINCIPAL CONTRACTOR DETAILS

Client:	SCOPE OF WORKS
Project Name:	
Project Address:	
Project Manager:	
Contact Phone:	
Date Risk Assessment supplied to Project Manager:	

RISK MATRIX									
LIKELIHOOD	INSIGNIFICANT	MINOR	MODERATE	MAJOR	CATASTROPHIC	SCORE	ACTION	HIERARCHY OF CONTROLS	
ALMOST CERTAIN	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4 ACUTE			Elimination Remove the hazard.	
LIKELY	2 MODERATE	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4A ACUTE	DO NOT PROCEED	Substitution Replace the hazard.	
POSSIBLE	1 LOW	2 MODERATE	3 HIGH	4 ACUTE	4 ACUTE	3H HIGH	Review before work starts.	Isolation Isolate People from the hazard	
UNLIKELY	1 LOW	1 LOW	2 MODERATE	3 HIGH	4 ACUTE	2M MODERATE	Ensure control measures in place.	Engineering Isolate the hazard	
RARE	1 LOW	1 LOW	2 MODERATE	3 HIGH	3 HIGH	1L LOW	Monitor and keep records.	Administrative Change	
								PPE	
Risk Rating & Required Action:								Notes on Hierarchy of Controls:	
4A Stop work. The risk is intolerable. Eliminate the hazard or redesign the activity before proceeding. A Safe Work Method Statement (SWMS) or higher-level authorisation is required.								Remember to apply controls in the preferred order shown by the coloured pyramid:	
3H Review and approve additional controls before task starts. Senior supervisor sign-off needed.								1. Eliminate	
2M Ensure all nominated controls are in place and effective. Proceed with caution; monitor conditions.								2. Substitute	
1L Proceed, following standard operating procedures. Monitor and keep records.								3. Isolate	
								4. Engineering	
								5. Administrative	
								6. PPE	
Consequence Scale:								Always document why a lower-order control is accepted if elimination or substitution is not reasonably practicable.	
Consequence	People (injury/illness)		Project / Assets		Compliance / Reputation				
Catastrophic	Fatality or permanent total disability		project shutdown		Significant regulator intervention; criminal prosecution				
Major	Serious injury/illness (hospital > 5 days)		critical delay		Improvement notice; major media coverage				
Moderate	Medical-treatment injury; lost-time > 1 day		moderate delay		Minor breach; adverse client comment				
Minor	First-aid only, no lost time		negligible delay		Isolated non-conformance				
Insignificant	No injury		no schedule impact		Deviation caught and corrected on site				
								<i>aligned with Safe Work Australia's Managing the risk of fatigue at work (2023) and ISO 45001:2018 clauses 6–8.</i>	

JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
1. Preparation	inadequate planning, lack of equipment knowledge	3H	<ul style="list-style-type: none"> - Conduct a briefing session to ensure all team members understand the task - Provide training on the specific equipment set - Verify that all tools and equipment are in good working order - Develop a detailed installation plan - Double-check the schedule for equipment availability - Secure necessary permits and documentation - Ensure weather conditions are safe for outdoor work - Establish communication protocols with farm staff - Confirm the electricity and internet connections are available - Ensure appropriate Personal Protective Equipment (PPE) is available 	2M
2. Site inspection	uneven terrain, live animals	3H	<ul style="list-style-type: none"> - Conduct a thorough inspection of the worksite before starting - Identify and mark uneven terrains or hazards - Ensure clear signage is put up to warn area entrants - Develop a site safety plan - Ensure all workers wear visibility vests - Implement barriers or guards around dangerous areas - Coordinate with farm personnel to manage animal presence - Designate safe paths and working zones - Ensure the presence of first aid facilities on-site - Communicate the findings of the inspection to the entire team 	2M
3. Equipment unloading	manual handling injuries, equipment damage	3H	<ul style="list-style-type: none"> - Use mechanical aids for lifting whenever possible - Train staff on proper handling techniques - Assign adequate numbers of staff for unloading - Ensure workspace is clear of obstacles - Inspect equipment for any damage before use - Mark unloading area clearly and restrict entry to authorised personnel - Ensure operators are certified and experienced - Deploy spotters to aid in directing equipment movement 	2M

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			<ul style="list-style-type: none"> - Establish a clear communication protocol during unloading - Ensure equipment is stored securely after unloading 	
4. Assembling components	incorrect assembly, use of improper tools	4A	<ul style="list-style-type: none"> - Use correct assembly procedures and torque specifications - Verify all components are compatible and of correct grade - Use proper tools and equipment for assembly - Perform regular inspection and testing of assembled components - Ensure proper storage and handling of components - Use proper lifting techniques when moving components - Wear appropriate PPE (hard hat, safety glasses, gloves) - Ensure work area is clear of obstacles - Follow manufacturer's instructions for assembly - Use proper sequencing for assembly - Perform final inspection and testing of assembled components 	2M
5. Electrical connections	electrical shock, equipment malfunction	4A	<ul style="list-style-type: none"> - De-energize equipment before working on electrical connections - Use proper lockout/tagout procedures - Verify equipment is properly grounded - Use proper wiring techniques and materials - Perform regular inspection and testing of electrical connections - Ensure proper storage and handling of electrical components - Use proper lifting techniques when moving equipment - Wear appropriate PPE (hard hat, safety glasses, gloves) - Ensure work area is clear of obstacles - Follow manufacturer's instructions for electrical connections - Use proper sequencing for electrical connections - Perform final inspection and testing of electrical connections 	2M
6. Sensor installation	fall from height, striking fixed objects	4A	<ul style="list-style-type: none"> - Use proper fall protection equipment (harness, lanyard, lifeline) - Ensure equipment is properly secured before climbing - Use proper climbing techniques and equipment - Perform regular inspection and testing of sensor installation - Ensure proper storage and handling of sensor components - Use proper lifting techniques when moving equipment - Wear appropriate PPE (hard hat, safety glasses, gloves) - Ensure work area is clear of obstacles - Follow manufacturer's instructions for sensor installation - Use proper sequencing for sensor installation - Perform final inspection and testing of sensor installation 	2M

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7. Software setup	software errors, data corruption	3H		2M
8. Telemetry calibration	misconfiguration, false readings	4A		2M
9. Testing system functionality	system failures, unexpected responses	3H		1L

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10. Operator training	poor understanding, improper use	3H		1L
11. Final system integration	system incompatibility, resource overloading	4A		2M
12. Cleanup and tool collection	trip hazards, equipment loss	2M		1L

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13. Routine maintenance	component wear, software bugs	3H		2M
14. Contingency planning	unexpected downtime, lack of emergency protocol	4A		2M
15. System decommissioning	data loss, environmental breach	3H		1L

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SAMPLE

EMERGENCY RESPONSE – CALL 000 FOR EMERGENCIES

Ensure to have an Emergency Management Plan in place as well as adequate numbers of trained first aid staff with easy access to fully stocked first aid kits, rescue equipment, material safety data sheets, adequate access to emergency communication equipment and fire-fighting equipment suitable for all classes of fire and ignition sources.

LEGISLATIVE REFERENCES

RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEGISLATIVE REFERENCES IF ANY STATE THAT ARE NOT APPLICABLE

Queensland & Australian Capital Territory

Work Health and Safety Act 2011

Work Health and Safety Regulations 2011

Legislation QLD: <https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws>

Codes of Practice QLD: <https://www.worksafe.qld.gov.au/laws-and-compliance/codes-of-practice>

Legislation ACT: <https://www.worksafe.act.gov.au/laws-and-compliance/acts-and-regulations>

Codes of Practice ACT: <https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice>

Victoria

Occupational Health and Safety Act 2004

Occupational Health and Safety Regulations 2017

Legislation VIC: <https://www.worksafe.vic.gov.au/occupational-health-and-safety-act-and-regulations>

Codes of Practice VIC: <https://www.worksafe.vic.gov.au/compliance-codes-and-codes-practice>

New South Wales

Work Health and Safety Act 2011

Work Health and Safety Regulations 2017

Legislation NSW: <https://www.safework.nsw.gov.au/legal-obligations/legislation>

Codes of Practice NSW: <https://www.safework.nsw.gov.au/resource-library/list-codes-of-practice>

Western Australia

Work Health and Safety Act 2020

Work Health and Safety Regulations 2022

Legislation Western Australia: <https://www.commerce.wa.gov.au/worksafe/legislation>

Codes of Practice WA: <https://www.commerce.wa.gov.au/worksafe/codes-practice>

Northern Territory

Work Health and Safety (National Uniform Legislation) Act 2011

Work Health and Safety (National Uniform Legislation) Regulations 2011

Legislation NT: <https://worksafe.nt.gov.au/laws-and-compliance/workplace-safety-laws>

Codes of Practice NT: <https://worksafe.nt.gov.au/laws-and-compliance/codes-of-practice>

Safe Work Australia Links

Law and Regulation (All States): <https://www.safeworkaustralia.gov.au/law-and-regulation>

Model Codes of Practice: <https://www.safeworkaustralia.gov.au/resources-publications/model-codes-of-practice>

Model Codes of Practice

- Managing noise and preventing hearing loss at work
- Confined spaces
- Labelling of workplace hazardous chemicals
- Managing risks of hazardous chemicals in the workplace
- Welding processes
- First aid in the workplace
- Managing the risk of falls at workplaces
- Hazardous manual tasks
- Managing the risk of falls in housing construction
- Managing electrical risks in the workplace
- Demolition work
- Excavation work
- Work health and safety consultation, cooperation and coordination
- Managing the work environment and facilities
- How to manage work health and safety risks
- Managing risks of plant in the workplace
- Construction work

South Australia

Work Health and Safety Act 2012 (SA)

Work Health and Safety Regulations 2012 (SA)

Legislation for SA: <https://www.safework.sa.gov.au/resources/legislation>

Codes of Practice for SA: <https://www.safework.sa.gov.au/workplaces/codes-of-practice#COPs>

Tasmania

Work Health and Safety Act 2012

Work Health and Safety (Transitional and Consequential Provisions) Act 2012

Work Health and Safety Regulations 2012

Work Health and Safety (Transitional) Regulations 2012

Legislation for TAS: <https://worksafe.tas.gov.au/topics/laws-and-compliance/acts-and-regulations>

Codes of Practice for TAS: <https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice>

Details of permits, licenses or access required by regulatory bodies (add or delete as required):

- Permits from local council
- Authorisation to commence work
- Any required documents.