



# FEED MILLS, SILOS AND GRAIN HANDLING



**Business Name & Address:** \_\_\_\_\_ **Property Name/PIC:** \_\_\_\_\_

**Audit Team:** \_\_\_\_\_ **Audit Date:** \_\_\_\_/\_\_\_\_/\_\_\_\_

**Description (inc. make/model):** \_\_\_\_\_ **Asset ID #:** (If applicable) \_\_\_\_\_

RISK CALCULATOR	LIKELIHOOD – The likelihood of the exposure causing injury to a person given the frequency of exposure				
	ALMOST CERTAIN <i>Is expected to occur in most circumstances</i>	LIKELY <i>Will probably occur in most circumstances</i>	POSSIBLE <i>Might occur at sometime</i>	UNLIKELY <i>Could occur at sometime</i>	RARE <i>May occur in exceptional circumstances</i>
<b>CONSEQUENCES</b> How severely could it hurt someone					
<b>CATASTROPHIC</b> <i>Death or permanent disability</i>	EXTREME	EXTREME	EXTREME	EXTREME	HIGH
<b>MAJOR</b> <i>Serious bodily injury</i>	EXTREME	EXTREME	EXTREME	HIGH	HIGH
<b>MODERATE</b> <i>Casualty Treatment</i>	EXTREME	HIGH	HIGH	MODERATE	MODERATE
<b>MINOR</b> <i>First aid only, no lost time</i>	HIGH	HIGH	MODERATE	LOW	LOW
<b>INSIGNIFICANT</b> <i>No injuries</i>	HIGH	MODERATE	LOW	LOW	LOW

RISK CLASS	ACTION REQUIRED
OK or Not Applicable	No Foreseeable Risk - <b>OK</b> for now; <b>Review</b> if any equipment/people/materials/work methods or procedures change. <b>Or</b> this particular inspection item is <b>Not Applicable</b> to this workplace
EXTREME	<b>Extreme Risk - Act Now</b> Do something about these risks immediately. Stop the task until the hazard is controlled and the risk managed.
HIGH	<b>High Risk - Act As Soon As Possible.</b> Do something to manage these risks as soon as possible. Consultant with Management
MODERATE	<b>Moderate Risk</b> - Develop a <b>PLAN</b> to manage these risks / note any suggestions on how the risk might be managed.
LOW	<b>OK</b> for now <b>Review</b> if any equipment/people/materials/work methods or procedures change.



IDENTIFIED HAZARDS	OK or NA	EXTREME (Act Now)	HIGH (Act ASAP)	MODERATE (Plan)	LOW (Review)
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SILOS – CONFINED SPACE ENTRY – WORKING FROM HEIGHTS					
1. Has a risk assessment been carried out for high risk activities such as confined space entry, working form heights or hazardous substance use around the silo complex?					
2. Is there a record of the risk assessment, stating the actions recommended and the hazard control measures decided upon?					
3. Do silo ladders begin far enough above ground (1.8m) so as to be out of reach of children?					
4. Is a safety device fitted to silo ladders to prevent unauthorised persons climbing the ladder?					
5. Are steps and handrails on silo ladders in good condition and conforming to Australian Standards?					
6. Can the power supply to the silo be locked out so that the loading/unloading mechanism cannot be started when someone is in the bin?					

IDENTIFIED HAZARDS	OK or NA	EXTREME (Act Now)	HIGH (Act ASAP)	MODERATE (Plan)	LOW (Review)
7. Are silos located away from power lines?					
8. Is appropriate respiratory protection provided for work with dusty or mouldy grain and when cleaning, loading or emptying bins/silos?					
9. Is appropriate PPE including gloves, respiratory and eye protection available for handling of grain treatment chemicals and grain dusts and undertaking work in a confined space such as a silo?					
10. Is appropriate respiratory protection and instruction on the use of PPE available for entry of grain silos and other confined spaces?					
11. Is there a known policy and procedure and a permit system for confined space entry in this workplace? <i>See the QWHS Code of Practice for Confined Space Entry advice.</i>					
12. Are safety harnesses and fall arrest systems utilised when working at heights?					
13. Have workers been informed of the hazards associated with grain dust combustion and the methods required to managing the risk of combustion or explosion?					
14. Are there warning signs on all grain storage areas that identify the hazard of grain suffocation and entanglement in machinery?					
<b>POLICIES and PROCEDURES</b>					
15. Is there a policy and procedure known and observed; <i>that children and other unauthorized persons are not permitted near grain storage areas or grain handling activities?</i>					
16. Is there a procedure to test emergency stops?					
17. Is there a written procedure and appropriate signage warning that smoking will not be permitted within 3 metres of a storage containing combustible materials?					
18. Are procedures and policies in place that prevent hot cutting or welding from being carried out within 15 metres of any flammable or combustible material?					
19. Are policies and procedures in place that requires the silo site to be free from extraneous combustible material?					
20. Is there a known and observed working at heights policy and procedure in place?					
21. Are workers provided with and instructed in the correct use if safety harnesses and fall arrest systems when working at heights?					
22. Are there documented policy and procedures for undertaking work in a confined space, including silos and wells?					

IDENTIFIED HAZARDS	OK or NA	EXTREME (Act Now)	HIGH (Act ASAP)	MODERATE (Plan)	LOW (Review)
23. Is there a procedure in place that requires an observer (buddy system) to be located outside/near the silo (confined space) whilst a person is working inside the silo?					
24. Are Material Safety Data Sheets (MSDS) available to all staff, involved in the application of hazardous substances in or around silo areas?					
25. Have all staff been instructed in the safe use and handling of hazardous substances according to their respective MSDS?					
26. Are current MSDS and copies of label information held for all hazardous substances used in this workplace?					
<b>GRAIN STORAGE and ASSOCIATED HANDLING EQUIPMENT</b>					
27. Is the use of a sweep auger a declared, restricted activity when working alone?					
28. Are grain intake points on grain augers effectively guarded to prevent entanglement with body parts and clothing?					
29. Are overhead powerlines, which are situated in the work area and pose a potential risk when moving grain augers or vehicles, excluded from the transport path?					
30. If powerlines cannot be isolated from the transport path are such paths clearly marked with strategically placed hazard reminders?					
31. Are all moving belts, chains and pulleys on grain augers guarded to prevent entanglement?					
32. Are sweep and feeder augers in silos and mobile field-bins covered with guards?					
33. Is there a known policy in place that requires augers or grain elevators to be emptied and lowered prior to moving?					
34. Are all moving belts, chains and pulleys on grain augers covered to prevent contact with body parts and clothing?					
35. Are approved and appropriate warning signs posted internally and externally of the storage area?					
36. Can tarps covering the grain pads cause entanglement injury in high winds with loose ropes?					
37. Are grain pads clearly signed as to what chemical treatment is being used to control pests?					
<b>FEED MILL &amp; TUB GRINDERS</b>					
38. Are operators' manuals and safety instructions accessible to all operators?					
39. Are all safety alert symbols clear and visible to tub grinder operators?					

IDENTIFIED HAZARDS	OK or NA	EXTREME (Act Now)	HIGH (Act ASAP)	MODERATE (Plan)	LOW (Review)
40. Have staff who operate or assist in grinding operations had access to the Tub Grinder Operators manual?					
41. Is there a tag out or lockout system for maintenance work on the Tub?					
42. Is adequate respiratory PPE available to operators?					
43. Are operator manuals and safety instructions readily accessible to all operators?					
44. Has eye, hearing and other necessary PPE been provided to operators of machines?					
45. Has adequate training and instruction been provided for the correct use and maintenance of PPE provided?					
46. Is the machine located out of high volume traffic areas, while still allowing access for loading?					
47. Is the machine adequately labelled with safety decals / signage?					
48. Are all chains, moving parts and PTO shafts adequately guarded?					
49. Have workers received training and instruction in the safe use and maintenance of the relevant machines?					
50. Are routine services and maintenance undertaken and records kept?					
51. Is a fire extinguisher or fire hose available in the operating environment?					
52. Is the tractor driven PTO guarded adequately?					
<b>STEAM FLAKERS</b>					
53. Are all guards in place and in good repair?					
54. Are all steam lines and taps adequately guarded?					
55. Are safety signs used to remind staff of potential hazards?					
56. Is spilled grain cleaned up regularly to avoid slips?					
57. Are all moving parts such as stubs of rollers, guarded?					

IDENTIFIED HAZARDS	OK or NA	EXTREME (Act Now)	HIGH (Act ASAP)	MODERATE (Plan)	LOW (Review)
<b>BOILER OPERATION</b>					
58. Check that Boiler Log Book (in control cabinet) has been filled out and maintained?					
59. Do staff who operate the boiler have relevant training /accreditation?					
60. Are all scheduled services up to date?					
<b>ADDITIONAL HAZARDS</b>					
61.					
62.					
63.					
64.					
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66.					
67.					
68.					

**RISK ASSESSMENT AND MANAGEMENT RECORD**

**HIERARCHY OF CONTROLS PLANNED OR IMPLEMENTED**

Item #	Date	Identified Hazard	Assessed Risk Level	Control 1 Eliminate	Control 2 Substitute	Control 3 Isolate or Guard	Control 4 Redesign or Engineering	Control 5 Administration	Control 6 PPE

<b>IMPLEMENTATION AND CONTROL SHEET</b>						
<b>Item #</b>	<b>RISK MANAGEMENT ACTION REQUIRED</b>	<b>Responsible Person</b>	<b>Cost \$</b>	<b>Target Date</b>	<b>Date Actioned</b>	<b>Revised Risk Level after Action</b>