ChecklistGuro

Grain Bin Safety Protocol Checklist

Hazard Identification & Risk Assessment

Initial assessment of potential hazards and risks associated with grain bin operations. Includes identifying potential entrapment zones, equipment risks, and environmental factors.

Describe the general layout and contents of the grain bin (type of grain, depth, condition).

Write something...

Identify potential hazards (check all that apply):

- [ ] Entrapment zones (bridging, crusting)
- [ ] Suffocation (lack of oxygen)
- [ ] Asphyxiation (CO, H2S)
- [ ] Equipment hazards (augers, conveyors)
- [ ] Falling hazards (ladders, platforms)
- [ ] Noise hazards
- [ ] Dust hazards

Grain Depth (feet)

Enter a number...

Condition of grain (e.g., dry, damp, moldy)

- [ ] Dry
- [ ] Slightly Damp
- [ ] Damp
- [ ] Moldy

Describe any previous incidents or near misses related to this grain bin.

Write something...

Temperature of grain (degrees Fahrenheit)

Enter a number...

Identify the most likely entrapment zone(s) based on grain conditions and bin configuration.

- [ ] Near the center of the bin
- [ ] Along the walls
- [ ] Under the crust
- [ ] Around the unloading auger
- [ ] Multiple locations

Record any existing control measures in place to mitigate identified hazards.

Write something...

Confined Space Entry Procedures

Detailed procedures for safely entering and working within the grain bin, including permit requirements, atmospheric monitoring, and rescue planning.

Entry Permit Required?

- [ ] Yes
- [ ] No

Reason for Entry (detailed description)

Write something...

Permit Issue Date

Enter date...

Permit Issue Time

Atmospheric Monitoring Performed?

- [ ] Yes
- [ ] No

Oxygen Level (%), pre-entry

Enter a number...

Carbon Monoxide (ppm), pre-entry

Enter a number...

Hydrogen Sulfide (ppm), pre-entry

Enter a number...

Hazards Identified/Mitigated (check all that apply)

- [ ] Grain Dust
- [ ] Suffocation
- [ ] Toxic Gases
- [ ] Falling/Slips
- [ ] Entrapment

Entry Point Location

Set My Current Location

Lockout/Tagout (LOTO) & Equipment Control

Procedures to ensure all equipment related to grain bin operation is properly shut down and secured to prevent accidental startup.

Equipment Being Locked Out/Tagged Out:

- [ ] Auger
- [ ] Conveyor Belt
- [ ] Grain Dryer
- [ ] Power Take-Off (PTO)
- [ ] Ladder/Stairway
- [ ] Other (Specify)

Detailed Description of LOTO Procedure Followed:

Write something...

Last Known Circuit Breaker/Disconnect Switch Number:

Enter a number...

Disconnect Switch/Circuit Breaker Verified as 'OFF':

- [ ] Yes
- [ ] No

Specific Steps Taken to Prevent Accidental Startup:

Write something...

Energy Sources Isolated (Check all that apply):

- [ ] Electrical
- [ ] Mechanical
- [ ] Hydraulic
- [ ] Pneumatic
- [ ] Gravity

Lock/Tag ID Number (if applicable):

Write something...

Date of Lockout/Tagout:

Enter date...

Time of Lockout/Tagout:

Lockout/Tagout Technician Signature:

Personal Protective Equipment (PPE)

Requirements for appropriate PPE, including harnesses, lifelines, respiratory protection, and hearing protection.

What PPE is required for grain bin entry?

- [ ] Harness and Lifeline
- [ ] Hard Hat
- [ ] Safety Glasses/Goggles
- [ ] Hearing Protection
- [ ] Respiratory Protection (Dust Mask/Respirator)
- [ ] Gloves
- [ ] Steel-toed Boots

Harness Type (Confirm Correct Fit)

- [ ] Full Body Harness
- [ ] Chest Harness
- [ ] Shoulder Harness

Lifeline Length (Feet)

Enter a number...

Inspect Harness and Lifeline - Document Any Damage

Write something...

Respirator Fit Tested?

- [ ] Yes
- [ ] No

Upload Photo of PPE Inspection (Optional)

Upload File

Name of Person Inspecting PPE

Write something...

Atmospheric Monitoring & Ventilation

Procedures for monitoring oxygen levels, carbon monoxide, and hydrogen sulfide within the bin, along with ventilation requirements.

Oxygen Level (%), Before Entry

Enter a number...

Carbon Monoxide (CO) Level (ppm), Before Entry

Enter a number...

Hydrogen Sulfide (H2S) Level (ppm), Before Entry

Enter a number...

Ventilation Method Used

- [ ] Fixed Ventilation System
- [ ] Portable Blower
- [ ] Natural Ventilation
- [ ] Other (Specify)

Detailed Description of Ventilation Procedure

Write something...

Date of Last Atmospheric Monitoring

Enter date...

Time of Last Atmospheric Monitoring

Monitoring Device Calibration Status

- [ ] Calibrated within last 12 months
- [ ] Calibration needed
- [ ] Not Applicable

Rescue Planning & Team Training

Developing a rescue plan and ensuring all personnel involved in grain bin operations are properly trained in rescue techniques.

Describe the designated rescue team and their roles.

Write something...

Which rescue equipment is available (e.g., tripod, rescue tube, harness)?

- [ ] Tripod
- [ ] Rescue Tube
- [ ] Harness
- [ ] Anchor Points
- [ ] Other (Specify in Long Text)

Number of team members trained in bin rescue.

Enter a number...

Date of last rescue team training.

Enter date...

Estimated time to initiate rescue (from notification).

Upload a copy of the rescue plan document.

Upload File

Describe communication protocols during a rescue operation (who to contact, how).

Write something...

What is the designated assembly point for rescue personnel?

- [ ] Designated location on property
- [ ] Farm shop
- [ ] Other (Specify in Long Text)

Describe the process for notifying emergency services (local fire department, EMT).

Write something...

Grain Flow & Bridging Prevention

Procedures to prevent grain bridging and flow issues that can contribute to entrapment hazards. Includes techniques for breaking down crusts and plugs.

Date of Last Grain Level Check

Write something...

Describe any observed grain bridging or crust formation

Write something...

Number of times grain was agitated to break bridging

Enter a number...

Method used to break grain bridge (Select all that apply)

- [ ] Auger Rod
- [ ] Bin Rod
- [ ] High-Pressure Water
- [ ] Manual Rod/Pole
- [ ] Other (Specify in Long Text)

If 'Other' selected, specify the method used.

Write something...

Vertical distance grain was agitated (feet)

Enter a number...

Was grain flow impeded by foreign object?

- [ ] Yes
- [ ] No

If Yes, describe foreign object and action taken.

Write something...

Date of next scheduled grain flow assessment

Enter date...

Communication & Emergency Response

Establishing clear communication protocols and emergency response plans in case of an entrapment or other incident.

Emergency Contact Name (Primary)

Write something...

Emergency Contact Phone Number (Primary)

Enter a number...

Emergency Contact Name (Secondary)

Write something...

Emergency Contact Phone Number (Secondary)

Enter a number...

Brief Description of Emergency Response Plan

Write something...

Designated Rescue Team Contacted?

- [ ] Yes
- [ ] No

Last Emergency Drill/Review Date & Time

Communication Methods Available During Operation (Select All That Apply)

- [ ] Radio
- [ ] Cell Phone
- [ ] Two-way communication device
- [ ] Visual Hand Signals

Notes/Specific Communication Protocols

Write something...

Equipment Inspection & Maintenance

Regular inspection and maintenance of all equipment used in grain bin operations, including augers, conveyors, and ladders.

Last Auger Inspection Date

Enter date...

Auger Motor RPM (during inspection)

Enter a number...

Detailed notes from Auger Inspection (Condition, Repairs, etc.)

Write something...

Photos of Auger Condition (Pre/Post Inspection)

Upload File

Last Ladder Inspection Date

Enter date...

Ladder Type

- [ ] Fixed
- [ ] Portable
- [ ] Other

Ladder Maximum Load Capacity (lbs)

Enter a number...

Any Ladder Repairs/Modifications Noted

Write something...

Bin Ventilation System Operational?

- [ ] Yes
- [ ] No
- [ ] N/A

Time of Bin Ventilation System Test

Training & Competency

Ensuring all personnel involved in grain bin operations receive adequate training and demonstrate competency in safety procedures.

Which Grain Bin Safety Topics Have You Been Trained On?

- [ ] Confined Space Entry
- [ ] Lockout/Tagout Procedures
- [ ] Grain Entrapment Hazards
- [ ] Rescue Techniques
- [ ] PPE Usage
- [ ] Atmospheric Monitoring
- [ ] Bridging & Flow Issues
- [ ] Emergency Communication

Date of Last Grain Bin Safety Training

Enter date...

Number of Years of Experience with Grain Bin Operations

Enter a number...

Briefly Describe Your Understanding of Grain Entrapment Hazards

Write something...

What is Your Role in Grain Bin Operations?

- [ ] Operator
- [ ] Supervisor
- [ ] Maintenance
- [ ] Safety Personnel
- [ ] Other (Specify in Long Text)

Upload Copy of Training Certificate (if applicable)

Upload File

Are you familiar with the facility's Grain Bin Rescue Plan?

- [ ] Yes
- [ ] No
- [ ] I am aware of it, but haven't reviewed it recently

Describe your understanding of the “Stand-by Person” role during grain bin entry.

Write something...