

STUDENT WORKSHEET: Machinery Safety

Name: _____

Watch the **Machinery Safety** VR video.
Answer the following questions in the space provided.

1 List three different ways you can **prepare** for operating machinery safely.

2 Identify some factors that need to be considered when **operating machinery safely**.

3 Explain one way that you can prevent future safety concerns **post-use of machinery**.

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Observe the four images below.

- Describe the safety precaution that is being taken in each image.
- Explain the possible consequences of not taking these precautions.



Farm Equipment Maintenance Log

Name of Equipment	Manufacturer's contact details:		
Label	Date of purchase	Person responsible for equipment	Initials
Serial number	Person responsible for equipment	Date out of service	Initials
Manufacturer	Date out of service		

Date	Maintenance Description	Maintenance performed by	Date of next scheduled service or PMS service	Location performed at	Next maintenance performed on (date)	Remarks

ANSWER GUIDE: Machinery Safety

1 List three different ways you can **prepare** for operating machinery safely.

Answers may include:

- ensuring all farm staff have proper training and understand the potential hazards when using each piece of machinery
- wearing PPE when necessary (such as helmets, safety goggles, ear muffs or plugs, fitted clothing, steel-capped boots)
- ensuring a well-equipped first aid kit and current emergency plan are accessible
- checking safety guards on augers are in place and knowing how to use the emergency stop

2 Identify some factors that need to be considered when **operating machinery safely**.

Answers may include:

- riding quad bikes at slower speeds over steep terrains and uneven ground, or avoiding particularly unsafe terrain if possible
- not carrying excessive or unevenly distributed weight on a quad bike to avoid flipping
- lowering augers to a horizontal position before moving them from one place to another to avoid contact with powerlines
- keeping unauthorised people (including children) away from machinery such as augers while they are operating

3 Explain one way that you can prevent future safety concerns **post-use of machinery**.

Answers may include:

- cleaning and storing machinery properly
- performing and recording ongoing repairs and services to ensure all machinery and equipment is in safe working order
- maintaining current training for all farm staff involved in machinery operation
- educating children on farms about PPE, how to act and move safely around machinery and what to do in an emergency

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Observe the four images below.

- a) Describe the safety precaution that is being taken in each image.
- b) Explain the possible consequences of not taking these precautions.



a) Helmets are being worn to protect the riders' heads in the event of an accident.

b) Quad bike riders who do not wear helmets are at a significantly increased risk of severe head trauma, brain injuries or death.



a) The grain auger has been lowered to a horizontal position before being moved.

b) Grain augers that have not been lowered put the driver in danger of serious injury or death if they come into contact with powerlines.



a) Safety goggles, ear muffs and gloves (PPE) are being worn to protect the machinery user's eyes, ears and hands.

b) Using farm machinery without wearing appropriate PPE increases the risk of injuries as well as long-term health impacts.

Subj	Maintenance Description	Maintenance performed on	Date of installation/last put into service	Installation performed by	Next maintenance performed on	Remarks

a) A farm equipment maintenance log is being used to record ongoing repairs and services to machinery.

b) If records of equipment maintenance are not kept, it is more likely that machinery safety hazards will go unnoticed and unfixed.