Safety of Quad Bikes and Side-by-Side Vehicles on Australian Farms

A Practical Management Guide
Principles for quad bike and side-by-side vehicle safety on farms

Accidents involving quad bikes are now the second leading cause of injury death on Australian farms. Most deaths are due to crush injury associated with quad bike rollover or by injury associated with the victim being flung onto a hard surface as a result of a crash. Farmsafe Australia partners urge farmers to think carefully about their use of quad bikes taking into account the safety risks.

Farmers who are employers or in control of the farm workplace have responsibility under occupational health and safety law to provide safe systems of work for workers and visitors to the workplace, including operation of quad bikes. (Go to Page 6)

To best manage safety in quad bike and side-by-side vehicle operation on Australian farms and to meet OHS obligations farmers should:

1. **Machine or vehicle selection**  
   Where possible select a machine that has a low risk of rollover. Consider the machines that can be fitted with a suitable operator protective device, including rollover protective structure and operator restraint. Many jobs on Australian farms can be undertaken using alternative vehicles to quad bikes. If using a quad bike, fit a tested rollover protection device. (Go to Page 7)

2. **Conditions of operation**  
   Specify the jobs for which the quad bike/side-by-side vehicle is to be used, the conditions of operation (including speed and load and tow limits) and the areas on the farm on which the machine is to be operated, and define "no-go" areas. (Go to Page 12)

3. **Attachments and loads**  
   Make sure that attachments and loads comply with the specifications in the Operator’s Manual, taking into account that loads will reduce stability. This information should be available from the supplier. (Go to Page 10)

4. **Quad bikes and passengers**  
   Do not allow passengers on quad bikes. (Go to Page 11)

5. **Quad bikes and children**  
   Do not allow children under 16 years to operate adult sized quad bikes. (Go to Page 14)

6. **Training operators of quad bikes and side-by-side vehicles**  
   Make sure that operators of quad bikes/side-by-side vehicles are trained to operate the machine safely. (Go to Page 15)

7. **Induction to safe operation of quad bikes/ side-by-side vehicles**  
   Make sure that operators receive a thorough induction to safe operation of the vehicle on the specific property. (Go to Page 15)

8. **Maintenance**  
   Ensure that machines are well maintained for safe operation. (Go to Page 18)

9. **Helmets**  
   Provide a suitable helmet and ensure that it is worn. (Go to Page 18)

10. **Supervision**  
   Supervise safe operation (Go to Page 18)
First some definitions...

What is a quad bike?

For the purpose of this Guideline, quad bikes are specifically designed motorized vehicles that operate on four low pressure, high flotation tyres. They have a saddle-type seat that is designed for a single operator, handlebars for steering control and may be either 2- or 4-wheel drive.

Quad bikes are in widespread use on Australian farms. Their ability to operate in a range of conditions, including muddy conditions, without leaving a ‘footprint’ has provided practical advantage in many settings. Their farm use includes:

- Personal travel around the farm
- Muster of livestock
- Supervision of working field crews
- Inspection of crops, pastures, fences, water and livestock
- Towing and carrying of goods
- Spraying of small areas of weeds
- Shifting irrigation pipes

What is a side-by-side vehicle?

In this guideline, side-by-side vehicle refers to other small vehicles designed for off-road use. They often have a bench-type seat, have a steering wheel and are designed to transport more than one person. They are also equipped with four or more low pressure high flotation tyres and generally have a tray-back designed for carrying small loads.

While side-by-side vehicles are not as commonly used on Australian farms as quad bikes, increasing numbers of farms have moved over to using these as a safer option, particularly for transporting horticultural produce.
Why should farmers be concerned about quad bike safety?

There is a growing concern world-wide over the number of deaths and serious injuries associated with use of quad bikes in agriculture, as well as in the context of recreation. In Australia, information from the National Coroners Information System from 2001-2009, indicates an average of 14 deaths each year are associated with quad bike operation.

- The majority of those who have died were quad bike riders, however passengers (and bystanders) are also at risk.
- Children are at increased risk of serious injury and death - age is more important than size and weight.
- Quad bike related deaths are associated with a wide range of work activities in agriculture and horticulture, including mustering, spraying pesticides, transporting and travelling on the property. There are significant numbers of deaths associated with leisure operation of farm quad bikes.
- There is a tendency for quad bikes to rollover, resulting in deaths and serious injuries.
- Loading of the quad bike has been associated with rollover deaths.
- In most cases, injury is caused by blunt force with the body part crushed between the quad bike and the ground or other surface. Alternatively there is contact of the body with a rock, tree or other surface, after the rider has been flung from the quad bike by momentum.
- The body parts injured and associated with death were mostly the torso, head and cervical spine. Death commonly results from crush injuries and asphyxia.
- Earlier quad bike models were associated with injury to the foot and ankle, however the improved design of quad bikes with foot plates has reduced this risk.

**Occupational Health and Safety risk** associated with quad bike operation on Australian farms should therefore be **assessed as HIGH**, and employers and those in control of the workplace are required to take active steps to control that risk.
The basic principles of risk management for safety

These are the principles for reducing injury risk in any workplace. They are also what the OHS regulations require in all states. There is a 'hierarchy', or ranking of effectiveness for prevention of injury:

More effective

1. **Elimination of the hazard**
   Where possible, an injury risk must be eliminated, or removed from the workplace. This is obviously the most effective way to reduce risk. While it is often not possible to eliminate a particular hazard, the law requires that as an employer you must at least think about elimination as the first option.

2. **Substitution for a hazard of lesser risk**
   Where it is not possible to remove a hazard altogether, you need to consider whether the hazard can be 'substituted' for something that will do the same job, but is less risky. There are a range of small vehicles available on the market that may be suitable for your farm work. Substitution of quad bikes by other small more stable vehicles or machines, is a key option that all farmers should consider.

3. **Other engineering measures to prevent injury**
   Designing machinery to isolate the worker from the hazard is the basis of many safety improvements in the workplace. For any vehicle that can rollover and crush the rider, or can result in the rider being ejected from the seat, an operator protective system is required (ROPS and/or seat belt). For quad bikes, there is emerging positive evidence supporting the fitment of suitably tested rollover protection devices that can prevent death or serious injury in the event of a rollover. For side-by-side vehicles, a ROPS and seat belts are necessary.

4. **Safety rules**
   Whatever machine or vehicle is being used, you must make sure that it is operated safely. Your farm rules should include:
   - Giving effective safety induction and training to workers who use the vehicle.
   - Providing workers with information about the risks and how these risks can be reduced.
   - Supervising workers using quad bikes or side-by-side vehicles.
   - Never carry passengers on quad bikes.
   - Do not allow children under 16 years to operate adult sized quad bikes.

5. **Personal protective equipment - helmets**
   Personal protective equipment must be provided and used where workers cannot be protected from a hazard by other control measures. This includes providing helmets to protect from head and neck injury for riders of quad bikes and motorcycles, plus attention to manufacturers' safety advice.

Less effective

The more effective controls must always be considered first. In practice, best practice in OHS risk management will require a mix of the above measures.
Selecting the safest machine or vehicle for the job

Quad bikes are popular and useful machines for many common farm jobs. However, safety of the operators is a key issue you should take into account. When deciding what is a safe farm machine or vehicle for the specific jobs, think about the following:

What jobs are to be done with a quad bike or a side-by-side vehicle, and under what conditions?

Some jobs can be done efficiently by using vehicles that may be safer than quad bikes. For example, some farm managers in horticulture have moved to using side-by-side vehicles that are more stable and less inclined to rollover. They are also fitted with a Rollover Protective Structure (ROPS) and seat belts.

On the other hand, these side-by-side vehicles may not be suitable for some of the jobs that quad bikes are now used for – for example, for flood mustering of stock.

For some jobs, you may decide that the general farm utility, tractor or 2-wheel motorcycle might be the safest option.

What safety features should you look for when buying the vehicle?

When considering the type of machine(s) to purchase, consider the following:

- Size of machine – suitable to the size and strength of the operator(s), plus the conditions of the operating environment (steering can be “heavy” for some older and female operators)
- Stability and likelihood of rollover and protection provided in event of rollover
- For quad bikes, is the machine fitted with a protective device to limit death and injury in the event of a rollover
- For side-by-side vehicles, is the machine fitted with a ROPS and seat belt
- Foot plates that protect the foot and lower leg from injury
- Load specifications meet your needs for planned attached or towed loads
- Speed and capacity to limit speed
- 4-wheel drive or 2-wheel drive (4-wheel drive may be safer in wet conditions)

Does the mix of machines and systems on the farm enable farm work to be undertaken safely?

Most farms will need more than one vehicle or machine to safely undertake the mix of necessary jobs efficiently and safely. And some jobs may need a different machine under different circumstances, for example, if it is wet, or if a trained operator is not available.

Remember to think about the other risks of the planned work – for example, spraying using a machine without a cabin can expose the worker to risk of contamination with pesticides.

You should think about your farm needs and your machine/vehicle requirements, keeping safety in mind!
This is how one horticulture and sheep business is dealing with their safety issue

A larger “corporate” enterprise runs farms producing stone fruit, a vineyard and broadacre farms in NSW. This business has undertaken significant changes in response to difficulties associated with use of quad bikes.

The company had documented 24 quad bikes ‘flip-overs’ on its farms before making some key changes. When quad bikes were being used for towing fruit, the trailer load tended to become “pushy”. The Safety Officer himself had experienced one rollover on a big quad bike where the towed trailer pushed it. It wasn’t over the tow weight limit. The terrain is mildly sloping in the orchards and vineyards.

The company now has one quad bike on its horticulture property used for supervision and checking, and one on a sheep property. It has replaced its other quad bikes with John Deere Gators for most of the work previously done by quad bikes and now has six Gators and two 2-wheel motorcycles that are being phased out.

Regular maintenance is undertaken by the on-farm mechanic, who does all the routine maintenance.

Worker induction and training of workers to operate the Gators is undertaken by the Safety Officer. The induction includes having the worker read the operator’s manual, undertaking basic checks, noting the farm speed limit which is 8-10 kph on roads. Gators are governed to 25 kph. Each worker has 8 hours training with the Gator, in which time they are taken all over the property, and are made familiar with the tracks to be taken and areas off limits for side-by-side vehicle operation.

Full road helmets are used by riders, except where work involves talking to people.

No ‘flip-overs’ have occurred to date with the mix of machines in place.

(It was noted that Gator was retaining a good resale value.)
**Options to consider for selected farm jobs:**

**Inspecting**

Perhaps the most universally useful role for quad bikes has been as a means of getting around the farm for checking water, fences and stock plus for supervision of work.

Where the surface of the tracks and paddocks are smooth and even and the terrain is not too steep, this is possibly one of the safest places to use quad bikes.

Other options that are in use and could be considered are:
- Farm utilities
- Side-by-side vehicles
- 2-wheel motorcycles

**Moving produce (fruit and vegetables) on the farm**

Quad bikes have been in use for carting and towing lugs or other containers of fruit and vegetables. Other options are in use and could also be considered. These have reduced risk of rollover and include:
- Side-by-side vehicles with or without trailer
- Farm utilities
- Small tractors with trailer

**Spraying of weed pests**

Alternatives to quad bikes that are in use and that reduce the risk of rollover death and injury include:
- Side-by-side vehicles with fitted tank or towed tank
- Farm utilities
- Small tractors
- Knapsack sprays

**Mustering**

Quad bikes have proved very useful for mustering sheep and cattle, including dairy cattle. Other options that are in use and could be considered include:
- 2-wheel motorcycles
- Farm utilities

**Transporting**

Quad bikes have been used for transporting small loads around farms and have come into their own for work in wet conditions.

Other options include:
- Farm utilities
- Side-by-side vehicles
- Small tractors (that also function well in wet conditions)
**Loads and attachments**

*How do loads increase risk?*

Loads on the front or rear rack of quad bikes and side-by-side vehicles raise the centre of gravity and will increase the likelihood of the machine rolling over. Therefore extreme care should be taken with loading the machine.

The manufacturer and supplier will provide advice on load limits for each machine. This information will be found in the Operator's Manual and will include information on loads for front and rear racks and tow loads. These should never be exceeded.

Quad bike manufacturers advise that generally speaking, the specified maximum cargo load for quad bikes is for relatively flat, smooth and level terrain. The weight of cargo carried should be reduced as the terrain slope increases or in rough terrain. If riding on steep slopes, no cargo load should be carried.

High-mounted loads further raise the centre of gravity, such as fertilizer or grain hoppers, and these loads should be avoided.

*What about liquid loads such as spray tanks?*

Liquid loads in mounted or trailed spray tanks can shift as a machine corners or moves up an incline, reducing stability and increasing potential for rollover. While baffles within tanks may reduce this effect in some directions, changes will still occur and the increased risk remains.

Quad bike manufacturers advise that tanks should be limited in size (limited to the manufacturer's load limit for the specific machine), be baffled and involve suitable mounting methods and locations. They advise that quad bikes may be used with either rack-mounted or trailer-mounted spray tanks and the tanks should:

- Be as low as possible;
- Should not inhibit in any way a rider from engaging in rider active movements;
- Not contact the rider or restrict in any way his or her ability to separate from the machine in the event of an overturn;
- Be rounded and not have sharp edges;
- Have internal baffles that substantially restrict the movement of liquid as the tank is tilted; and,
- Should not be mounted/attached in a manner that obscures the rider's line of sight or visibility.
What about passengers?

Quad bikes are not designed to carry passengers. The longer saddle seat is designed for operator movement for optimal control of the machine.

Farmers and managers should note that employers are required under OHS regulations to ensure that "plant is used only for the purpose for which it was designed ...". Carrying passengers not only increases the risk of an accident and serious injury, it could be considered to be a breach of the OHS regulatory requirements.

Passengers should not be carried on quad bikes. If it is necessary for two persons to be transported, find other machines for the job, such as a farm utility or side-by-side vehicle.

Machine modification

If any modification is made to a machine, it is important to check whether your changes have increased the risk of injury. For example, changing the tyres to higher, narrower tyres than those supplied, will raise the centre of gravity and decrease stability of the machine.

For any change you make, you must check for safety hazards and then plan for ensuring that no-one is harmed by your changes. It is your responsibility to make sure your safety plans are enforced and make a note of your actions.

Making sure that quad bikes are not overloaded and that the 'No Passenger' rule is enforced on the farm are important ways of providing a 'safe system of work' and 'maintaining a safe working environment'.

Limits of terrain

Are some terrains not suitable for operation of quad bikes/side-by-side vehicles?

Yes. While quad bikes have been called “All-terrain” machines, clearly there are limits to the degree of slope and type of terrain over which they can be operated safely. A 2009 Victorian Coroner’s inquest into eight quad bike fatalities recommended that “Quad bikes must not be described as All Terrain Vehicles or ATV’s. So described, a false impression is created, which warnings are unable to erase”.

Terrains that pose a rollover risk for quad bikes and side-by-side vehicles include slopes, rough and rocky ground, tussocky vegetation, contour banks and dam banks.

Farmers and farm managers can reduce risk of quad bike and/or side-by-side vehicle injury by:

- Identifying the high risk areas of the farm and establishing rules for how work is to be undertaken safely in these areas – e.g. maybe doing mustering on foot in hilly areas.
- Establishing “no-go” areas on the farm where the machine may not be operated.
- Improving the surfaces of made tracks for safer access to particular areas of the farm.

Manufacturers suggest two general rules of thumb for riders:

- Operate at speeds and on slopes/rough terrain so that all four tyres remain on the ground at all times.
- When carrying cargo on a quad bike, avoid rough or steep terrain and obstacles.

Manufacturers strongly warn against use of quad bikes on paved or bitumen surfaces, due to the flotation design of the tyres. Riding on paved surfaces may seriously affect the handling and control of the quad bike.

A farm hand had been employed by the owner of the property for some years. In the early afternoon he rode the quad bike from the house to the shed where he used several lengths of rope to tie steel to the rear of the quad bike. The steel was to be taken to the rear of the property where fencing contractors were erecting rural fencing. He then rode down the dirt road. Part way along the route, he decided to leave the dirt road and travel along a makeshift road which he had apparently travelled many times before. This makeshift road consisted of travelling over long grass and down a steep uneven gradient. Whilst traversing the slope it appeared to the investigators that the quad bike toppled over and landed on top of the rider who died from crush injuries. Due to the location of the deceased only 4-wheel drive vehicles were able to get to the deceased.

Defining areas of the farm and tracks that are safe for quad bike/side-by-side vehicle operation, and defining “no go” areas are important parts of providing a “safe system of work”
**Speed of operation**

While many quad bike accidents occur at what would be considered to be "low" speeds, the likelihood and severity of injury is greater at higher speeds, particularly in instances where the operator may be ejected from the vehicle.

It is more likely that quad bikes and side-by-side vehicles can be safely controlled at lower speeds, allowing obstacles and hazards on the ground to be seen and corrective action taken.

A suggested rule of thumb is:

"Operate at speeds and on slopes and rough terrain so that all four tyres remain on the ground at all times"

Farm speed limits for all vehicles and machines should be put in place and enforced.

Two young men got onto a quad bike owned by the rider. The quad bike was ridden out of the property and onto a road. At some point the quad bike left the road going up an embankment where it hit a small tree. The quad bike continued to travel up the embankment where it rolled and the occupants were thrown from the quad bike due to impact. As a result of being thrown the passenger suffered a severe head injury by impacting heavily onto a rock and died.

The rider survived and allegedly admitted to going too fast and 'losing it'.

Setting safe speed limits for quad bike/side-by-side vehicle operation on the farm is an important part of providing a "safe system of work" and "maintaining a safe working environment".
**Age of rider**

**Should children ride quad bikes?**

Children and youth under the age of 16 years are at greater risk of serious injury while operating adult sized quad bikes than older operators. This increased risk appears to independent of weight and height of the child and is related to developmental stage.

Quad bike manufacturers provide labels or decals on quad bikes warning of the dangers to child operators. The correct operating age will be advised in the Operator Manual.

It is therefore essential that operation of adult sized quad bikes on farms be limited to competent adult operators.

**Restricting operation of quad bikes to competent adults over 16 years of age is an important part of employers ensuring that “plant is used only for the purpose for which it was designed...”**

**What about older farmers?**

Many quad bike deaths on Australian farms involve older farmers, probably reflecting the average age of farmers who operate these vehicles. However, it should be noted that as we get older our physical capability and agility is reduced, and our vision, hearing and sense of balance may be impaired. This will make it more difficult to use “active riding” techniques recommended by manufacturers.

In addition, older people are more likely to suffer fractured bones than younger people in the event of an accident. All these factors add to the risk of losing control of a quad bike and should be considered in selection of the right vehicle for the job, plus the conditions present when operating the vehicle.

**What about the risk for young men?**

Young males are a recognized group of riders who are at increased risk as a result of their so called “risk taking behaviours”. This is well recognized by the road traffic authorities and deaths data for quad bike riders tends to reflect this view.

The degree of supervision required is therefore increased for young male workers and this should be taken into account in decision making about the type of vehicle to be used.

**Matching the machine to the age and behaviours of operators is an important part of employers maintaining a “safe system of work”**
Skills assessment, training and induction for safe operation of quad bikes and side-by-side vehicles

It is important that workers who operate any vehicle or machine on the farm have the necessary skills to operate the machine safely in the specific work environment. Farmers who are employers must assess skills, provide safety induction and such training as is necessary. All operators must have read the Operator’s Manual provided with the machine - this is a necessary part of knowing how to use the machine safely.

How can I assess the skills of workers to operate the machine?

A practical safety skills assessment should be carried out for each person who is to operate the vehicle and when a new vehicle is brought into use. This will generally involve the operator demonstrating knowledge about the machine and its operation (Tell me about…) and then demonstrating riding skills in a safe environment (Show me…).

This assessment might include:

Pre-start-up
1. Dressed in suitable work clothing, footwear for operation
2. Describe the purpose and correct use of vehicle controls
3. State why this farm’s rule is that passengers will not be carried on quad bikes
4. Check that tyre pressure and condition is appropriate, guards, chain tension etc are in good working order
5. Check operation and adjustment of all controls, including brakes
6. Check that any accessories mounted to the vehicle comply with the manufacturer’s load specifications

Operation
1. Wearing helmet and other personal protective equipment specified by the manufacturer
2. Start motor within a reasonable time
3. Ride in forward direction around a defined course - figure-8 around soft obstacles
4. Brake at corner of defined course
5. Reverse around at least part of the course
6. Ride vehicle demonstrating control over more difficult terrain - e.g. hill slope, gully, channel bank

Make sure that you keep a note of your assessment.
What training is needed for safe operation of quad bikes and side-by-side vehicles on farms?

All workers who ride quad bikes and side-by-side vehicles must be competent to operate them safely. No operator should be using the machine for farm work without being assessed as competent in operation of the vehicle.

Training may be provided by a training provider. Use a trainer from a Registered Training Organisation, who can train to develop the skills necessary for rural production and issue a Certificate of Competency. Make sure that you keep a note of all training provided.

What skills should rider training cover?

Operator rider training should include:
- Use for which the machine is designed
- Safety risks associated with its use including rollover
- Suitable attire, including need for helmet and eye protection etc as recommended
- Controls
- Pre-operation checks
- Starting, operation, cornering, braking, parking
- Stopping quickly, swerving
- Reverse riding
- Riding strategies - terrain, speeds, reading the environment
- Riding different terrains - including inclines, mud and water
- Loading and towing
- Loading and transportation of the machine
- Riding over obstacles
- Impact of fatigue, alcohol and other drugs

What safety information will be found in the Operator's Manual?

The Operator's Manual should include important information that describes:
- The purpose for which the machine is designed
- Identified safety risks associated with operation of the machine including rollover
- Measures to be taken to manage these risks, including:
  - Selection of the most relevant and safest vehicle for the tasks to be completed
  - Fitting of suitably tested rollover protection device
  - Passengers
  - Operator age and skills requirements
  - Personal Protective Equipment requirements
  - Pre-operation checks
  - Maintenance requirements
  - Loading and towing specifications
  - Operation on high risk terrains
What about training to ride AND do a specific job?

Where specialised farm work such as spraying and mustering is being undertaken using the quad bike/side-by-side vehicle, then the skill levels for operation need to be higher. The operator must have the necessary skills to do the particular job. Australian quad bike deaths data indicates that spraying and mustering are among the highest risk activities.

What is safety induction for quad bikes/side-by-side vehicles?

It is not enough that a rider has operation skills that have been developed in another work environment. An operator must be aware of the safety instructions in the Operator’s Manual and be inducted to safe operation of the machine in the specific farm environment. Safety rules will include:

- Routes to be used to get to worksites
- “No-go” areas and rules
- Speeds at which the machines will be operated
- No passenger rules
- No children rules
- Helmet use and other PPE
- Machine maintenance
- Communication systems
- Emergency procedures

Make sure you keep a record of the safety induction for safe operation of quad bikes or side-by-side vehicles.

Ensuring that operators are trained and are given induction to safe operation of the machine on the farm (including reading of the Operator’s Manual) are important parts of “providing the necessary instruction, information and supervision to ensure safety.”
Supervision of safe operation

Farmers who are employers must provide supervision “to the extent necessary to minimize the risks to health and safety”. To do this, the first requirement is to have established the rules and communicated these to operators.

Constant, direct supervision of operators of plant and machinery on farms (including quad bikes and side-by-side vehicles) is mostly not practical. Sometimes it is possible, e.g. where mustering stock is done together. On the other hand, periodic checks can be carried out to see that the operator is handling the machine or vehicle according to the farm rules - in terms of speed of operation, work being done, operation in the specified areas of the farm, wearing of helmet, adherence to “no-passenger” rule.

These checks should be more frequent in the early stage of operation of the machine, but should not be ignored later. Of course, if the rules have not been established and communicated to the worker, supervision is impossible!

Vehicle Maintenance

Regular routine maintenance is important for safety of all farm vehicles and machines, and particularly quad bikes and side-by-side vehicles. The Operator's Manual will provide guidance as to the maintenance requirements. Correct tyre pressure is important for quad bike/side-by-side vehicle safety. Tyres should be at the pressure advised by manufacturers in the Operator's Manual and a tyre pressure gauge should be readily available to the operator.

Helmets

Head injuries contribute to around 25% of quad bike related deaths in Australia. For this reason it is important that quad bike riders wear a suitable helmet to prevent serious head injury should an accident occur. Currently the only helmet standard in Australia that is applicable to quad bike riding is AS 1698 – 1988 Protective helmets for vehicle users. This standard was developed for road users. Until a specific farm motorcycle/quad bike helmet standard for use in Australia is available, riders should use this motorcycle helmet.

Emergency communication

As quad bikes and side-by-side vehicles are often operated at some distance from the farm base, it is very important that you have an effective communication system between the operator and base, and that the location of where workers are going and the expected time to return is known.

EPIRBs (Emergency Position Indicating Radio Beacons) are in use in some larger enterprises. These alert an emergency and signal the position of a person in distress for emergency services.
### A helpful checklist

**What are the farm jobs that we do that need a small vehicle?**

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**Who does this job?**

**What vehicle or machine would be suitable for this work?** (List, e.g. quad bike, side-by-side vehicle, Ute, tractor, 2 wheel motorcycle)

**What is the safest and most useful option for this farm?**

**Have we defined the areas of the farm and terrains that are safe for operation of this vehicle or machine?**

**For quad bikes is a protective device fitted to limit death or serious injury in the event of a rollover?**

**What attachments or modifications have been made for the machine? Are they safe?**

**Have we a clear rule relating to no passengers and children on quad bikes?**

**Have we defined the load and tow limits and arrangements to ensure safety?**

**Have operators had a safety induction for using this machine to do this job?**

**Have operators undergone suitable training to ensure safe operation?**

**Is there regular maintenance for the machine?**

**How do we supervise safe operation of the machine?**
Contacts

Your State Health and Safety Authority

Workplace Health and Safety Queensland
www.whs.qld.gov.au
Phone: 1300 369 915

WorkCover NSW
www.workcover.nsw.gov.au
Phone: 02 4321 5000

WorkSafe Victoria
www.workcover.vic.gov.au
Phone: 03 9641 1444 or 1800 136 089 (Toll Free)

Workplace Standards Tasmania
www.wst.fas.gov.au
Phone: 1300 366 322 or 03 6233 7657

SafeWork South Australia
www.safework.sa.gov.au
Phone: 13 18 55

WorkSafe Western Australia
www.safetyline.wa.gov.au
Phone: 08 9327 8777

Northern Territory Worksafe
www.nt.gov.au/wha
Phone: 1800 019 115

ACT Worksafe
www.worksafe.act.gov.au
Phone: 02 6207 3000

Manufacturers and Suppliers Organisations

Tractor and Machinery Association of Australia
www.tractormachinery.com.au
Phone: 03 9867 4289

Motor Traders Association of Australia
www.mtaa.com.au
Phone: 02 6273 4333

Federal Chamber of Automotive Industries (Motorcycle Manager)
www.fcai.com.au
Phone: 03 9820 5967

Training organisations

Your local TAFE

Honda Australia Rider Training (HART)
www.hartriderraining.com.au
Phone: 03 9270 1377

Yamaha Australia Safety Institute
Phone: 0408 187 288

Stay Upright
www.stayupright.com.au
Phone: 1300 366 640

Motor School
www.motorschool.com.au
Phone: 07 3630 0008

Farmsafe Australia

Farmsafe Australia Inc
www.farmsafe.org.au
Phone: 02 6752 8218

State Farmsafe Organisations