

Booklet 1

Guidelines for biosecurity plan workbook

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STEP 1

Use this information to help you fill in page 2 in **Booklet 2**

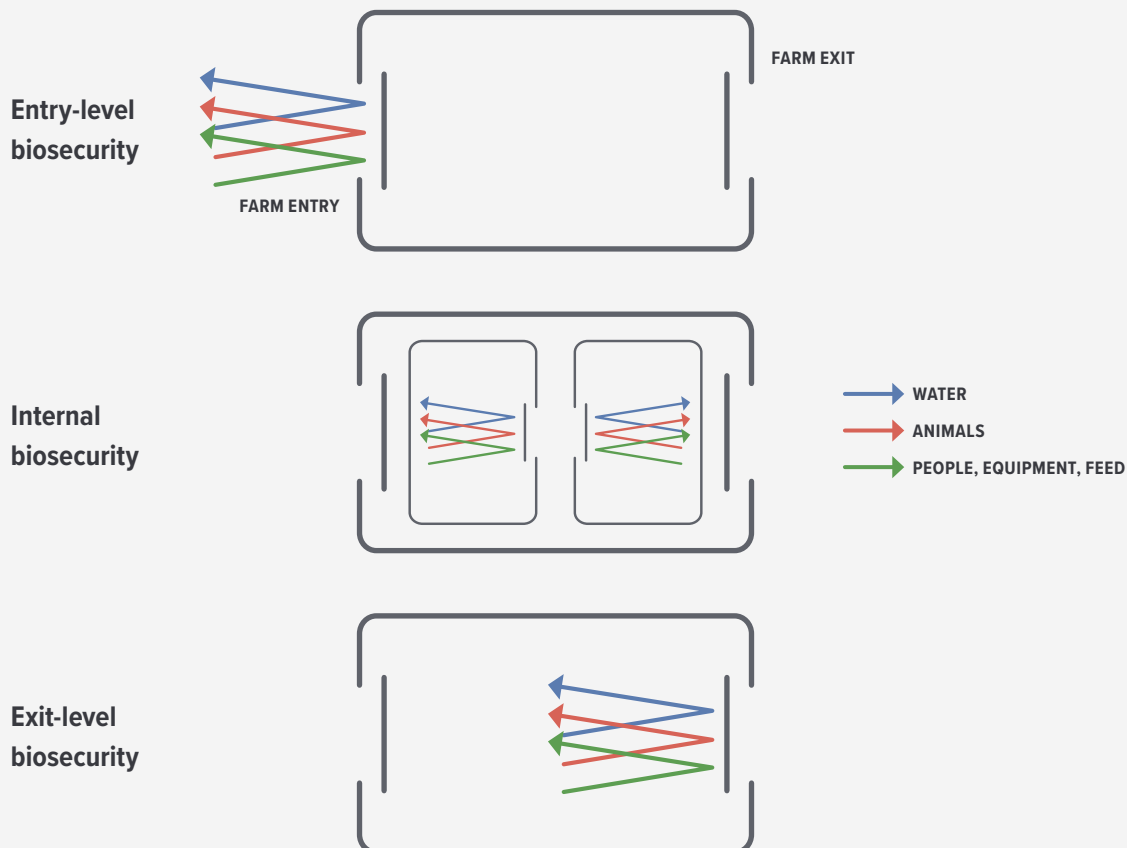
Define the purpose and regulatory requirements of the biosecurity plan

Biosecurity is an important part of any successful egg production system. It describes the systems in place within an enterprise or business to protect against infection and disease.

The purpose of a Biosecurity Plan is to put controls in place that:

- 1) reduce the risk of diseases being introduced into your farm (entry-level biosecurity)
- 2) reduce the risk of diseases spreading within your farm (internal biosecurity)
- 3) reduce the risk of diseases exiting from your farm (exit-level biosecurity)
- 4) define the emergency response protocols in place for serious disease outbreaks (all three levels of biosecurity)

An effective Biosecurity Plan should be farm-specific and balance practicality, cost and regulatory requirements.



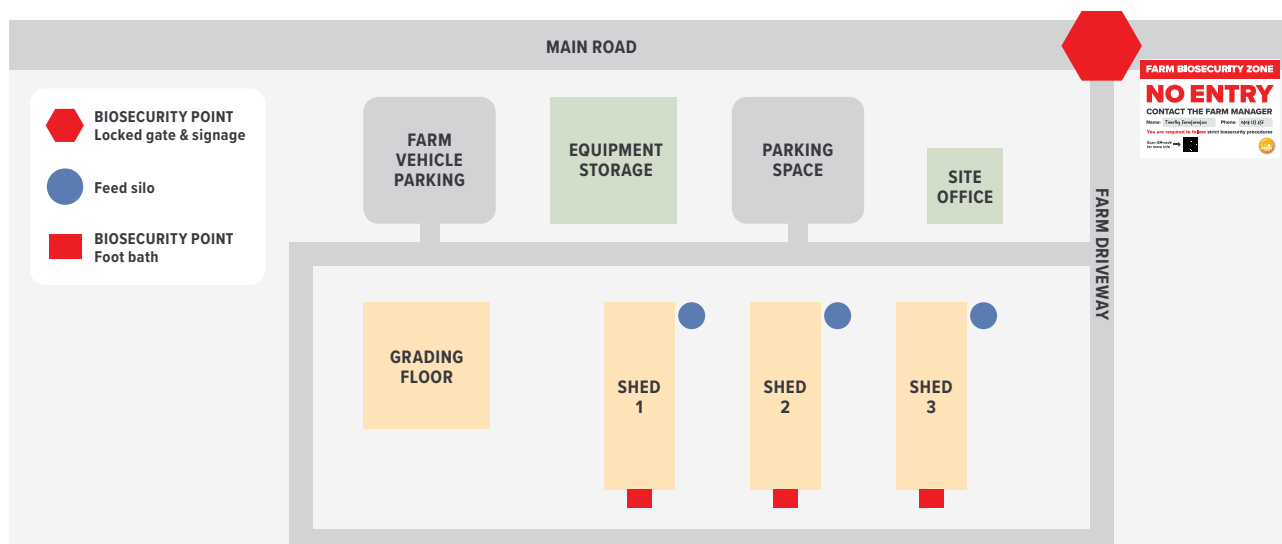


STEP 2

Use this information to help you create a farm map. To do this you could edit or print and annotate a current farm map. Otherwise page 3 in **Booklet 2** has been left blank if you need to create a new map.

Document the layout of the farm

Having a detailed map of the farm and included production area(s) will help you in planning biosecurity controls, training your staff and responding to an outbreak, should one occur.



Your map should contain the major facilities (for example, buildings, roads, production sheds, ranges) as well as the significant natural features of the site (for example, waterways and hills).

The map should also include:

- roads and site access points onto the farm
- vehicle parking areas for visitors
- all buildings – including main office and sheds
- production areas within the facility (for example, egg grading, hatchery, pullet raising and adult housing)
- equipment and vehicle storage areas
- water supply and treatment points
- escape and entry prevention measures (for example, fencing)
- any features important for the hens
- typical staff movements through the facility (for example, from hen sheds to egg packing shed)
- biosecurity controls, such as:
 - ▶ reception points for visitors and contractors
 - ▶ equipment and vehicle wash down areas
 - ▶ location of footbaths and disinfection areas
 - ▶ waste disposal areas (for example, for mortalities and manure)
 - ▶ site security points (include locations of lockable doors and gates)



STEP 3

List the major disease risks to the farm

Use this section to list known biosecurity risks (aka diseases) in your geographical area. This should include diseases known to infect local poultry and diseases that have previously infected flocks on your farm.

Use the Spotty Liver Disease example below to help you fill in pages 4 and 5 in **Booklet 2**, using one table for each disease.

Table 1 – *Provided as an example only* Spotty Liver Disease

SPOTTY LIVER DISEASE	DESCRIPTION
Disease agent	Campylobacter hepaticus
Distribution	Occurs worldwide and nation-wide in Australia. More prevalent in free range production systems.
Consequences	Spotty liver disease (SLD) in chickens can present with variable impacts on mortality and production, ranging from sporadic mortalities of individual birds and no notable impact on production to severe reduction in egg output and increased mortality in layer flocks of greater than 1% per day.
Transmission	Currently understood to be transferred by faecal-oral route. In food, water and surfaces contaminated with faeces.
Further information	<i>Induction of spotty liver disease in layer hens by infection with Campylobacter hepaticus</i> , Veterinary Microbiology 199 • December 2016. By Peter Scott, Robert Moore et al.



STEP 4

Use this information to help you fill in pages 6 to 11 of **Booklet 2**.

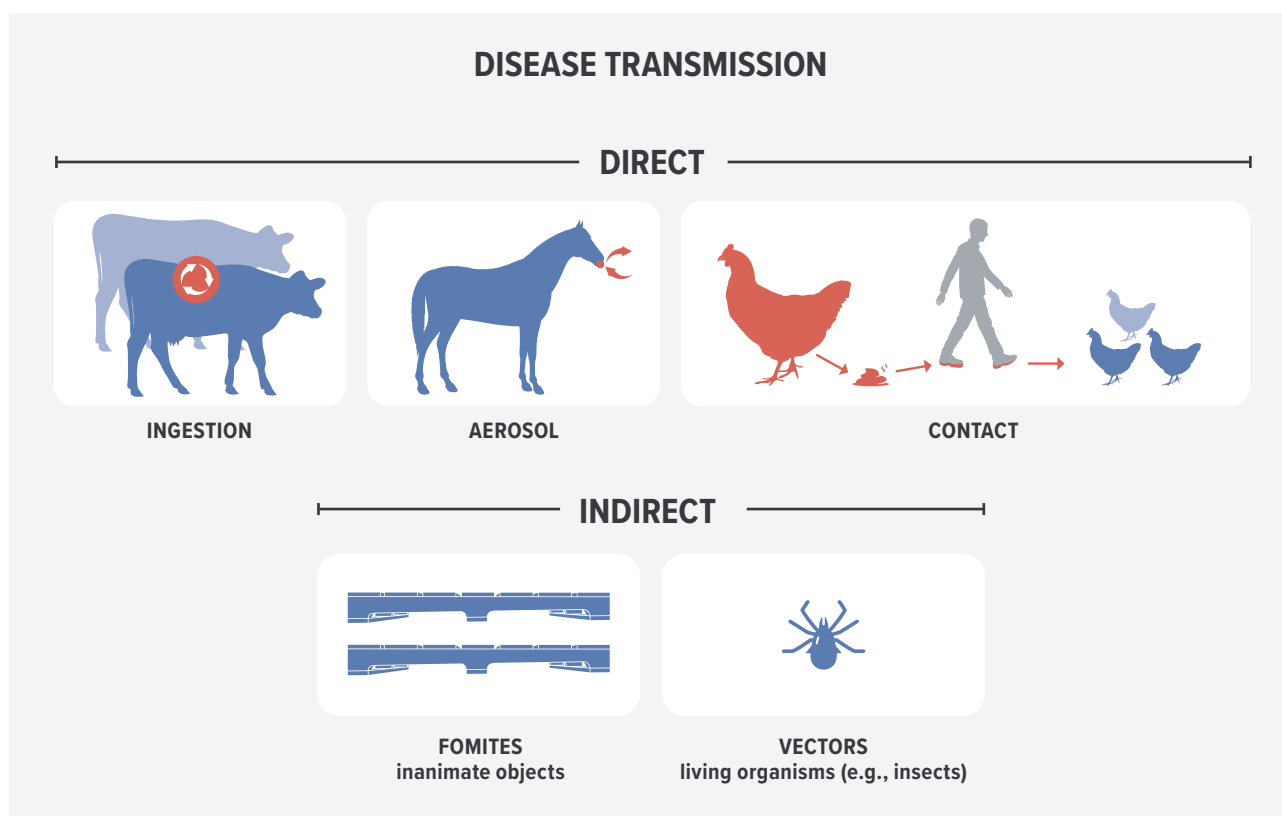
Inputs: Understand how disease can enter, move within and leave the farm

Pathways of Disease

In egg production systems there are three main pathways diseases can take to infect a healthy hen. The pathway taken will depend on the disease itself and which pathways are available at the farm. These are:

- 1. Direct contact:** a diseased hen coming into contact with a healthy hen. For example, this is one of the ways Erysipelas can spread.
- 2. (Indirect) Faecal – Oral:** given many disease-causing agents will be 'shed' in faeces, it's very common for disease to spread through infected faeces being digested by a healthy bird. *Salmonella* is spread in this way, for example. Importantly, this is also the disease pathway that can infect drinking water or surfaces such as egg fillers.
- 3. (Indirect) Aerosol:** Some diseases can be spread through droplets in the air. Highly Pathogenic Avian Influenza, for example, can spread in this way.

The aim of biosecurity is to put effective controls in place that prevent or reduce these pathways from existing on your farm.





S4

Inputs & Carriers of Disease

Bacteria and viruses that cause disease aren't capable of transporting themselves; the pathways above rely on carriers to transport them from animal to animal, human to human or between human and animal.

Animals

Poultry – Often poultry infected with disease will not show obvious signs of disease, which means chicks and pullets entering the farm could be carrying undetected disease. Any hen entering the farm should be managed in a way that prevents the spread of undetected disease to other hens on farm. This is particularly important if incoming poultry are of unknown health status e.g. no vaccination papers, not tested for *Salmonella* free status.

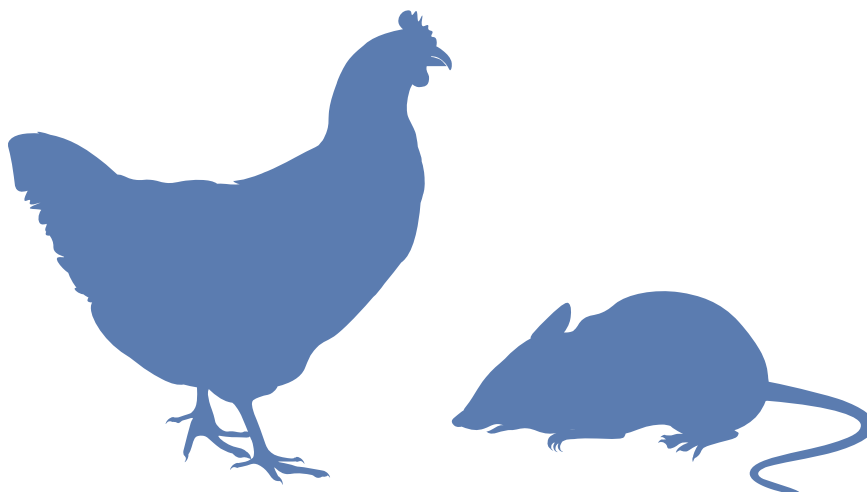
Other animals – Many other animals living in the environment can also spread diseases to hens. For example, diseases such as Avian Influenza are spread to domestic poultry from birds in the environment and *Salmonella* Typhimurium is harboured in rodents.

The following table provides important information for completing page 6 in **Booklet 2**.

ENTRY RISK	INTERNAL RISK	EXIT RISK
Poultry: Day old chicks or pullets delivered to farm Other Animals: Animals in the environment which may have access to production area(s)	Both: Disease spreading between hens, either through direct contact, faecal-oral or aerosol pathways	Poultry: Escaped hens and spent hens Other Animals: Animals could become infected on the farm and spread this to neighbouring farms



Use *The National Farm Biosecurity Technical Manual for Egg Production* (April 2015) as a reference for this section www.bit.ly/3ToRM54





S4

People

People can be carriers of disease, usually by transporting small amounts of faecal matter on clothing, footwear, hands, skin or hair. People present the highest risk of carrying disease if they've been in recent contact with other poultry premises, pig production premises or domestic birds at home. Thorough personal hygiene and personal disinfection procedures can be used to remove any faecal matter from visitors, contractors and staff before entering the production area(s).

The following table provides important information for completing page 7 in **Booklet 2**.

ENTRY RISK	INTERNAL RISK	EXIT RISK
Anyone accessing the production area(s) could potentially be carrying a poultry disease-causing agent As disease-causing agents can sometimes persist in the environment, people don't have to come into contact with live poultry to have been contaminated	Staff generally move between sheds/ranges or production area(s) on a daily basis. This presents the risk that they are spreading disease between flocks	Should people come into contact with disease-causing agents on your farm, there is the potential for them to transport disease



Use *The National Farm Biosecurity Technical Manual for Egg Production* (April 2015) as a reference for this section www.bit.ly/3ToRM54



Salmonella Enteritidis – A Guide for Producers is also a handy resource which outlines best practise on-farm biosecurity procedures www.bit.ly/2T0iPGg



S4

Vehicles and Equipment

Like people, equipment and vehicles can spread disease onto or within the farm through transporting faeces. Vehicles and equipment that have been onto other farms present a particularly high risk of contamination. However, as poultry diseases can be spread through birds and rodents, all vehicles and equipment could potentially be contaminated with faeces. Equipment includes anything brought onto the farm such as transportable cages, feeding equipment or egg pallets.

The following table provides important information for completing page 7 in **Booklet 2**.

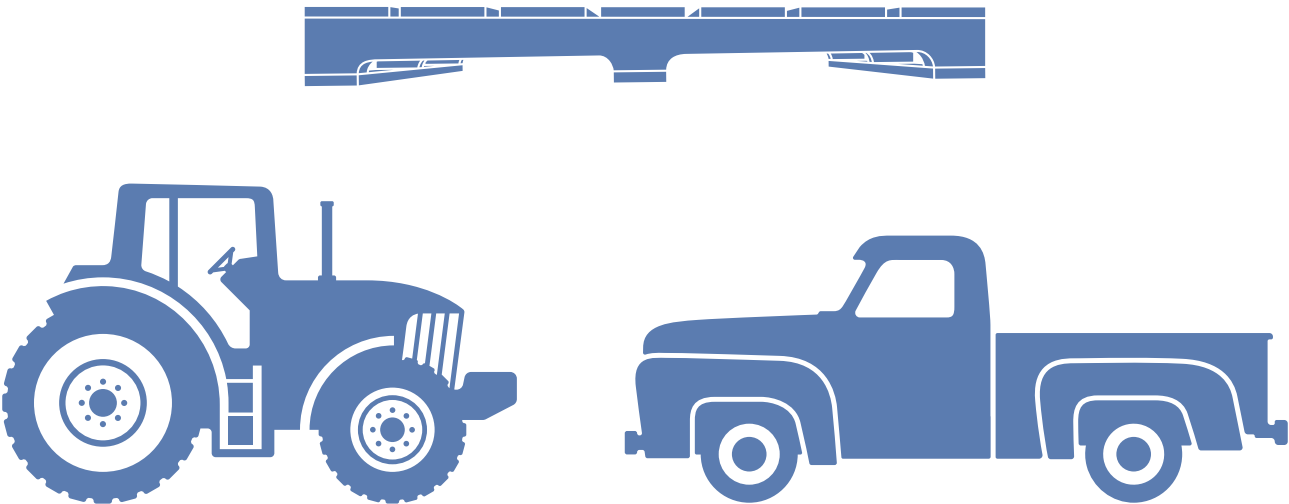
ENTRY RISK	INTERNAL RISK	EXIT RISK
Any vehicle or piece of equipment could bring infected faeces onto the farm	Vehicles or equipment moving between sheds or production areas can transfer infected faeces between areas and potentially spread disease from infected to infection-free flocks	Vehicles or equipment leaving the farm can transport faeces, feathers and organic matter, all of which can potentially harbour disease



Use *The National Farm Biosecurity Technical Manual for Egg Production* (April 2015) as a reference for this section www.bit.ly/3ToRM54



Salmonella Enteritidis – A Guide for Producers is also a handy resource which outlines best practise on-farm biosecurity procedures www.bit.ly/2T0iPGg





S4

Water

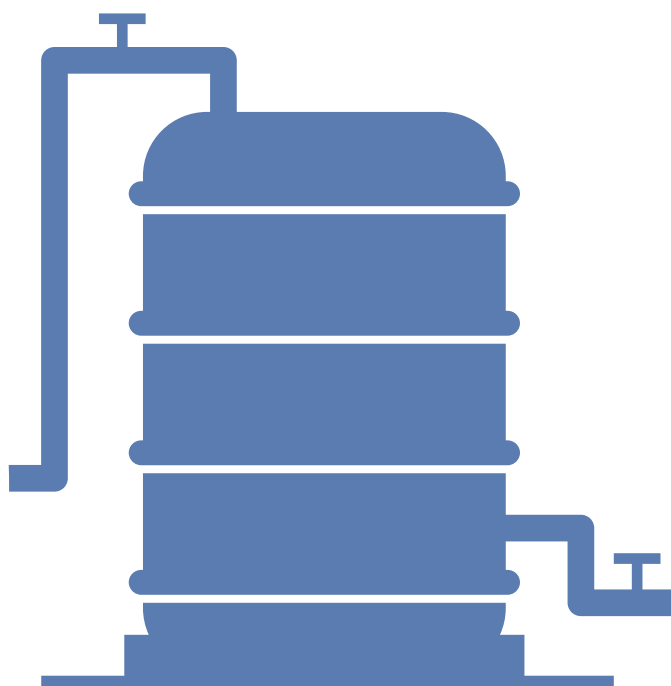
Water can be contaminated by coming into contact with animal faeces and spread disease to your flock. Depending on the source and storage of the water you use for production, your water could be contaminated before it reaches the farm, while being stored or transported within the farm, or once in the shed.

The following table provides important information for completing page 9 in **Booklet 2**.

ENTRY RISK	INTERNAL RISK	EXIT RISK
Water could be contaminated with faeces 'upstream'	If water is moving within the property or between production areas it could come into contact with faeces	Water that ends up in the surrounds after being in contact with production areas could spread disease from your flock to other farms or animals in the environment



Use the *National Water Biosecurity Manual – Poultry Production* as a reference for this section www.bit.ly/381jkUH





S4

Feed

Feed or feed ingredients delivered to your farm can be contaminated with disease-causing agents at a few different points before it reaches the feeding line. For example:

- feed could be contaminated with disease at it's origin or in manufacturing, or
- during transport, or
- by exposure to rodents, birds and pests at the site of production or on your farm

Standard heat treatments used for processed feeds (e.g. pellets) will kill bacteria but not viruses. Feed produced on site can still be contaminated if it comes into contact with faeces from rodents, birds or pests.

The following table provides important information for completing page 10 in **Booklet 2**.

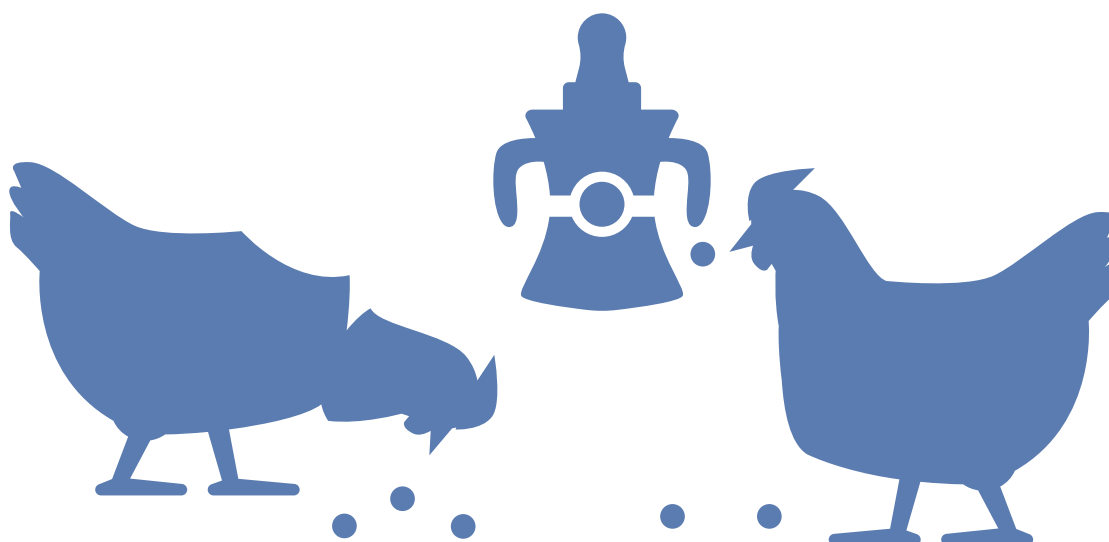
ENTRY RISK	INTERNAL RISK	EXIT RISK
Feed may be delivered with traces of animal faeces or come into contact with animal faeces on the farm <i>* Also consider the risk the feed truck coming on site poses to your farm</i>	N/A	Feed leaving the property, or it's vehicle could be contaminated with traces of faeces <i>* If feed is leaving the property</i>



Use *The National Farm Biosecurity Technical Manual for Egg Production* (April 2015) as a reference for this section www.bit.ly/3ToRM54



Salmonella Enteritidis – A Guide for Producers is also a handy resource which outlines best practise on-farm biosecurity procedures www.bit.ly/2T0iPGg





S4

Waste

Waste products such as spent hens, dead rodents, used litter and manure can all be carriers of disease. Dead animals, for example, may themselves be diseased, and disease-causing agents are often present in the manure of infected animals. All waste should be disposed of in a way that prevents animals and people from accessing it. This includes having appropriate infrastructure in place, as well as sound procedures for waste disposal. Vehicles and equipment used to contain or transport waste materials should be cleaned and disinfected before returning to any production areas.

The following table provides important information for completing page 11 in **Booklet 2**.

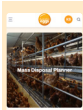
ENTRY RISK	INTERNAL RISK	EXIT RISK
Manure can enter the farm on the soles of boots, equipment and vehicles <i>Management of these has already been covered</i>	Manure, dead rodents and spent hens, if accessible by other animals (e.g. vermin, pests) and hens can lead to spread of disease throughout the farm	Dead animals, manure and used litter all pose a significant risk of spreading disease. If live animals or humans have access to waste they can become vehicles for any disease causing agents present.



Use *The National Farm Biosecurity Technical Manual for Egg Production* (April 2015) as a reference for this section www.bit.ly/3ToRM54



Salmonella Enteritidis – A Guide for Producers is also a handy resource which outlines best practise on-farm biosecurity procedures www.bit.ly/2T0iPGg



Producers are also strongly encouraged to develop a mass disposal preparedness plan to be used in the case of an emergency animal disease incident where poultry on the farm must be destroyed. Go to the online Mass Disposal Planner www.bit.ly/3IEq4wv





STEP 5

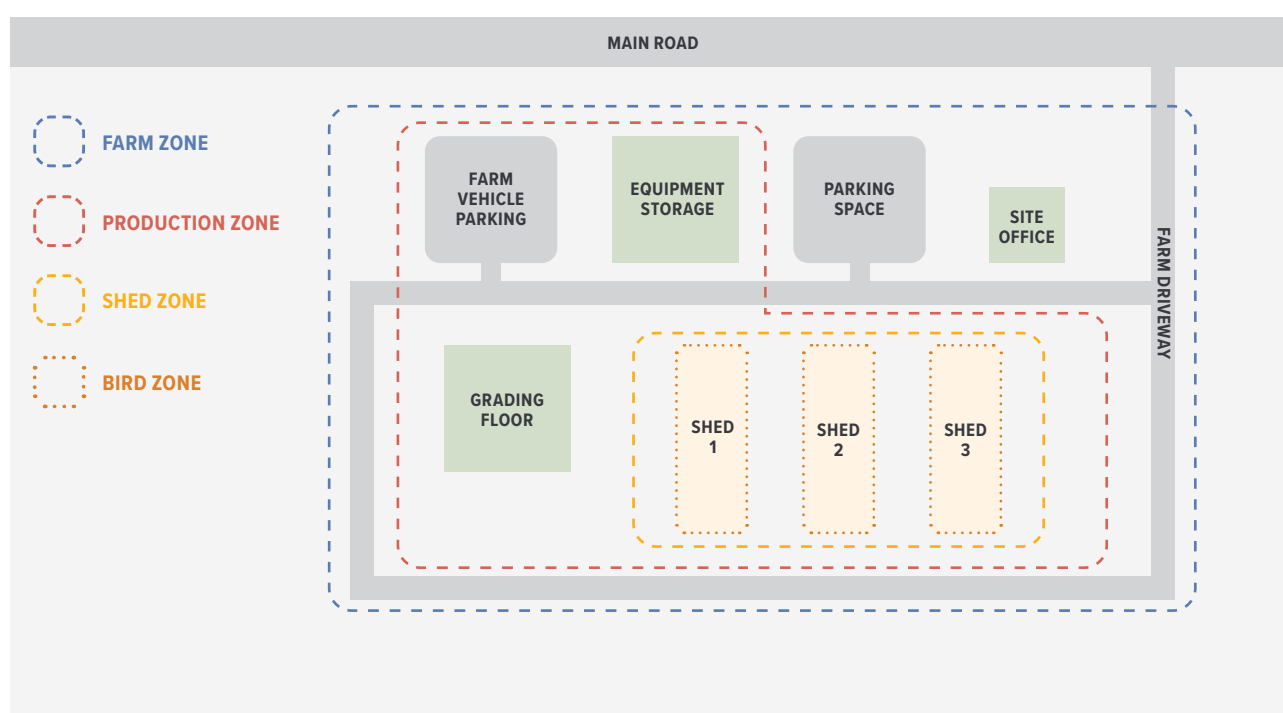
Document the biosecurity control points on the farm

A biosecurity control point is any location on the farm that inputs must pass through and where disease risk reducing activities take place. For example, the shed entry is a biosecurity control point where disease risk is reduced by staff washing or changing their footwear.

To effectively protect against the entry, internal and exit disease risks mentioned in **Step 4** there needs to be multiple biosecurity control points, or 'layers of protection', standing between the farm gate and the individual hen.

To understand where control points are placed on the farm the concept of biosecurity zones is helpful, as a control point should be part of entry to each zone. There are different ways of assigning biosecurity zones to the farm but a simple approach that works for most farms is the following:

ZONE	INCLUSION, DESCRIPTION	CONTROL POINT
FARM	Whole farm	Shed gate
PRODUCTION	Sheds, ranges, farm equipment and vehicles, storage areas (excludes visitor parking)	Office
SHED	Each shed, and its range where relevant	Shed entrance
BIRD	The flock, each individual hen	Staff and Quality Assurance





S5

In **Step 4** you listed the actions that take place to prevent disease being transmitted through each farm input. For this step, assign each of the activities to the control point where they take place.

In **Booklet 2** summarise how disease is prevented from entering and exiting each biosecurity zone on the farm. Use the pre-filled example below to assist, bearing in mind the answers are provided as examples only and may not be relevant to your farm.

AREA	FARM
Required inputs to zone	PEOPLE, VEHICLES
Control point	Shed gate
Actions carried out at control point	■ Gate is kept locked and signage indicates biosecurity measures must be followed ■ Non-vital people and vehicles are kept offsite ■ Vehicles that are needed on the farm are washed down to decontaminate
Documentation and training which support this	■ All staff receive biosecurity training reinforcing the importance of restricting access onto farm. ■ There is a SOP for vehicle wash down
How is effectiveness validated	Once per month a random vehicle is protein swabbed by farm manager

AREA	PRODUCTION
Required inputs to zone	PEOPLE
Control point	Office and farm manager
Actions carried out at control point	■ Visitors/ contractors/ tradesman need to sign in ■ Any site visitors must be accompanied into the production area with by a staff member ■ People are not allowed to enter the production area if: – They have been in contact with other poultry or pigs – Have travelled overseas for the last 7 days – Have been suffering from gastro
Documentation and training which support this	■ Visitors log book ■ Biosecurity declarations for staff and visitors



S5

AREA	PRODUCTION
Required inputs to zone	VEHICLES
Control point	Office and farm manager
Actions carried out at control point	Vehicle log book needs to be completed for non-farm vehicles accessing the farm
Documentation and training which support this	Vehicle log book

AREA	PRODUCTION
Required inputs to zone	EGGS
Control point	Office and farm manager
Actions carried out at control point	■ Eggs and their pallets are inspected for cleanliness, any with traces of organic matter are not accepted. ■ Eggs received come with documentation detailing production method, date of lay, storage and transport conditions and biosecurity measures practiced on farm of lay
Documentation and training which support this	Record of eggs delivered

AREA	SHED
Required inputs to zone	PEOPLE
Control point	Shed entrance
Actions carried out at control point	■ Wash hands at entry, either change into designated 'shed boots' or use foot bath ■ Foot bath is inspected daily to ensure it is in working condition

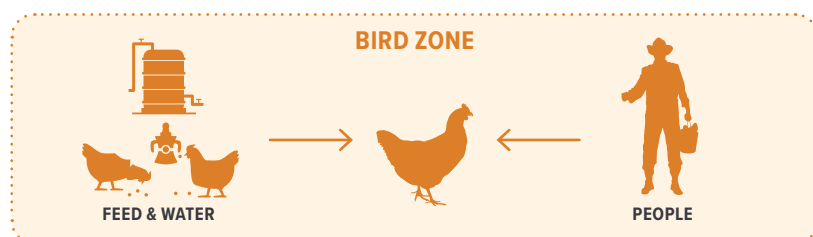


S5

AREA	SHED
Required inputs to zone	EQUIPMENT
Control point	Shed entrance
Actions carried out at control point	Equipment entering the shed must be disinfected before entry

AREA	SHED
Required inputs to zone	BIRDS
Control point	Shed entrance
Actions carried out at control point	■ Must be inspected before entry ■ Must be accompanied with health records

AREA	BIRD
Required inputs to zone	FOOD, WATER, STAFF
Control point	■ Staff member ■ Feed and water systems



As you can see at the **bird zone level**, biosecurity control relies on production staff; their knowledge and the systems put in place to uphold biosecurity.

Given this is the final defence in protecting hens from disease, the importance of providing staff with adequate biosecurity education and training can not be understated.

**STEP 6**

Use this information to help you put the biosecurity plan into action and fill in pages 20 to 22 in **Booklet 2**.

Implementing the biosecurity plan

In **Steps 4 & 5** you listed the controls that will be in place to prevent disease entering and spreading through the farm. These controls will be implemented on a day to day basis by your staff. For this reason, educating your staff on the fundamentals and importance of biosecurity as well as the steps they will need to take to implement this plan is crucial. SOPs and checklists will provide clarity for staff on the actions they need to take to maintain biosecurity controls and are especially helpful resources for new staff.

Staff Training

Staff training and consultation will be critical for effective implementation of your biosecurity plan. It is important that staff are fully aware of any new responsibilities under the farm biosecurity plan and clearly understand their role. Staff consultation in developing new procedures may improve practicality and efficiency.

Standard Operating Procedures (SOPs)

A biosecurity process should be described in an SOP if:

- it is complex, or
- rarely performed, or
- performed by multiple staff, or
- critical to the maintenance of farm biosecurity

Additionally, if a quality management system has been implemented on your farm, biosecurity SOPs should be incorporated within that quality system.

An SOP aims to support consistent performance of a particular function by farm staff. For this reason it must be clear, easy to follow and available to staff in areas where the function is performed.



Use the example in the table below and the template in **Booklet 2** to generate your own set of SOPs for staff (you may need to copy the template for each SOP required).

Table 7 – SOP Template

SOP SECTION	PRODUCTION	EXAMPLE
Title	This should be clear and unambiguous	Emergency procedures for high mortality
Objective	This should be clear and unambiguous	Describe procedures to be followed in the event of high, unexplained mortality on the farm
Responsibilities	Describe who the SOP applies to and the roles they must perform	All staff: understand this procedure, be able to follow initial response actions, report to biosecurity manager Biosecurity manager: coordinate initial response, report to farm manager, liaise with farm veterinarian Farm manager: responsible for deciding on response actions, reporting to government authorities
Procedure	Clearly describe the steps that should be taken as appropriate	1. Cease all activity including feeding, cleaning or stock movement 2. Check quality parameters such as water and feed 3. Secure the area to prevent access by unnecessary personnel, and to prevent movement of equipment, or stock 4. Assess the extent of the situation. How many flocks are affected? What is the proportion of sick or dead animals? Are there any obvious disease signs?
Precautions	Clearly describe any activities that must be avoided	1. Staff must not visit other production areas of the farm 2. Equipment and animals must not leave the affected area
Review date and further information	The SOP should include the date it came into effect, any supporting information and cross reference the relevant component of the farm biosecurity plan	SOP effective as of 01.08.2020 Refer to page 6 of biosecurity management plan <i>Management Of Poultry And Other Animals</i> for steps taken to limit transmission of disease in the case of infected birds.



Checklists and Forms

Your biosecurity plan will require that records are kept which reflect the activities being carried out as per the plan. Collecting and managing records should be as simple and practical as possible. Templates to cover a range of record keeping requirements are available on the Farm Biosecurity website (www.bit.ly/2HYbbFN) or from Australian Eggs (www.bit.ly/211aFa2).

Equipment

If new equipment is being put in place on the farm it should be labelled (for example, for the production area of intended use) and farm staff should understand proper use and maintenance (for example, use of foot baths and procedures for refreshing disinfectant). For some equipment, use and maintenance may need to be supported by an SOP (for example when technical expertise or a greater level of understanding is required).

Signage

Your biosecurity plan may require that new signs be erected at access points, to label different production areas and to identify restricted areas. Signs can be ordered from Australian Eggs (www.bit.ly/211aFa2) or purchased from commercial providers.



**STEP 7**

Implement a review cycle for the biosecurity management plan

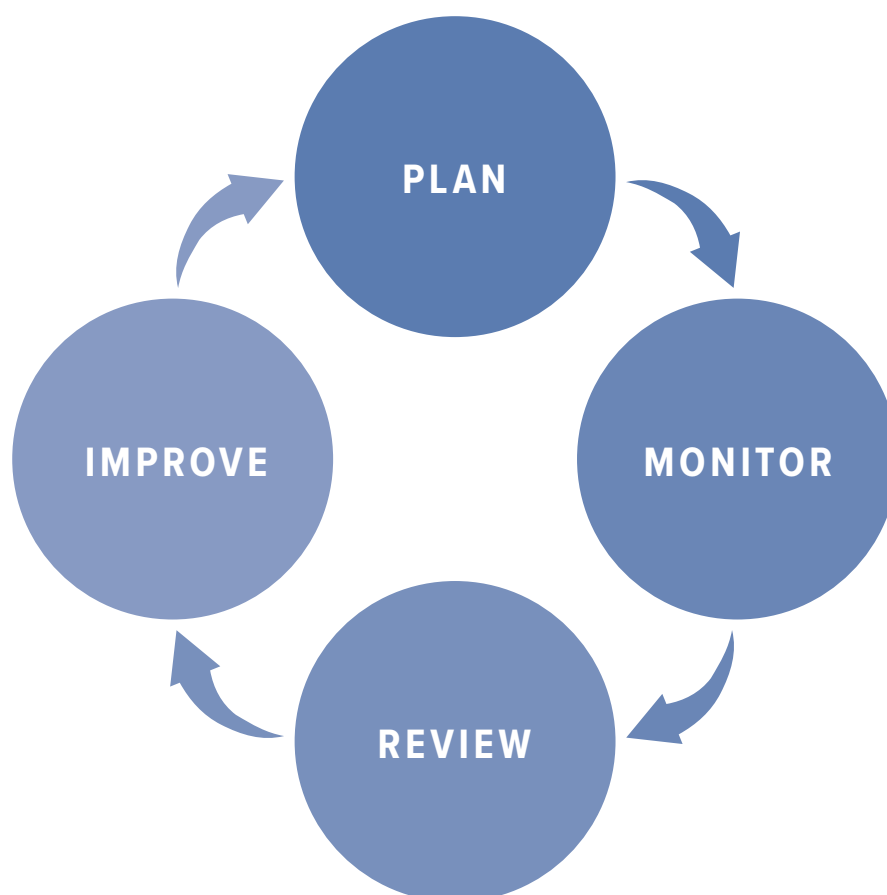
The farm Biosecurity Plan should be reviewed routinely to make sure it continues to prevent disease infecting the flock and does so with a minimum level of resource input.

If things change on the farm that could impact biosecurity controls, for example flock numbers are increased significantly, a new senior manager is employed or your husbandry procedures change; this should trigger a review of biosecurity plan outside of the standard review cycle.

Routine audit of the plan can be used to make sure it is being implemented on a day to day basis and identify any problem areas. These internal audits should be documented.

To provide more assurance, you can employ the services of an independent third-party to conduct an audit of your biosecurity plan.

Set out a plan for reviewing the farm biosecurity plan by answering the questions on page 23 in **Booklet 2**.



Booklet 2

Biosecurity plan workbook

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**STEP 1**

Define the purpose and the regulatory requirements of the biosecurity plan

Using the information in **Booklet 1**, state the purpose of this Biosecurity Plan for your farm:

List the regulatory requirements that will impact or inform your biosecurity plan:

**STEP 2**

Document the layout of the farm

This page has been left blank for you to either draw a farm map/paste an image of the farm, or paste and annotate an existing map.



STEP 3

List the major disease risks to the farm

Use the Spotty Liver Disease example in **Booklet 1** to help you fill in a table for each disease risk to your farm.

[NAME OF DISEASE]	DESCRIPTION
Disease agent	[organism]
Distribution	[endemic or exotic]
Consequences	[morbidity or mortality]
Transmission	[direct, indirect or vectors]
Further information	[manuals or websites]



S3

[NAME OF DISEASE]	DESCRIPTION
Disease agent	[organism]
Distribution	[endemic or exotic]
Consequences	[morbidity or mortality]
Transmission	[direct, indirect or vectors]
Further information	[manuals or websites]

[NAME OF DISEASE]	DESCRIPTION
Disease agent	[organism]
Distribution	[endemic or exotic]
Consequences	[morbidity or mortality]
Transmission	[direct, indirect or vectors]
Further information	[manuals or websites]



STEP 4

Describe how inputs are managed

Management of poultry and other animals

LIST THE ACTIONS YOU WILL TAKE TO ENSURE:		
ENTRY ■ Incoming chicks and pullets are free from disease ■ Access to production areas by other animals is prevented ■ <i>(Add your own actions below)</i>	INTERNAL ■ Hens are prevented from coming into contact with other animals, other than the hens in their own shed/range ■ <i>(Add your own actions below)</i>	EXIT ■ Hens don't escape their shed/range area ■ Spent hens are disposed of so they are inaccessible to hens, other animals, and ground water ■ <i>(Add your own actions below)</i>



Management of people

LIST THE ACTIONS YOU WILL TAKE TO ENSURE:		
ENTRY ■ The farm has oversight and control over who enters the production area(s) and has access to hens ■ Access to production area(s) by unauthorised people is prevented ■ All people entering the production area(s) have been decontaminated ■ <i>(Add your own actions below)</i>	INTERNAL ■ Disease is not being spread between sheds/ranges or production areas by people ■ <i>(Add your own actions below)</i>	EXIT ■ People are decontaminated after they visit the production area(s) and before they leave the farm ■ <i>(Add your own actions below)</i>



S4

Management of vehicles and equipment

LIST THE ACTIONS YOU WILL TAKE TO ENSURE:

ENTRY

- Vehicles and equipment entering the farm are limited to only those that are absolutely necessary
- Vehicles and equipment entering each production area(s) (if there are multiple within the farm) are limited to only those that are absolutely necessary
- Vehicles and equipment that have to enter the farm and/or production area(s) are cleaned so that any faeces/organic matter is removed
- Vehicles and equipment that have to enter the farm and/or production area(s) are disinfected so that any present disease agents are killed
- *(Add your own actions below)*

INTERNAL

- The need to move equipment between sheds and production areas is minimised
- Movement of vehicles between sheds and production areas is minimised
- As far as possible, only farm specific vehicles are to enter and move between sheds and production area(s)
- *(Add your own actions below)*

EXIT

- Vehicles and equipment are cleaned of organic matter and disinfected before they leave the farm
- *(Add your own actions below)*





Management of water

LIST THE ACTIONS YOU WILL TAKE TO ENSURE:		
ENTRY ■ Water reaching the farm is treated to remove disease causing agents ■ Water treatment processes are effective ■ <i>(Add your own actions below)</i>	INTERNAL ■ Water being provided to the flock is safe for drinking and free from disease causing agents ■ <i>(Add your own actions below)</i>	EXIT ■ Run-off from ranges and production areas does not contaminate water sources for your flocks or neighbouring properties ■ <i>(Add your own actions below)</i>





S4

Management of feed

LIST THE ACTIONS YOU WILL TAKE TO ENSURE:

ENTRY

- Your feed supplier takes every precaution to ensure feed is free from disease agents
- Your feed deliverer is cleaning the vehicle between deliveries – particularly if it has delivered to other pig and poultry premises
- Feed is not coming into contact with faeces between being delivered and fed to hens
- *(Add your own actions below)*

N/A

EXIT

- You have taken all necessary steps to ensure feed leaving the property is free from disease agents
- Any vehicle transporting feed is disinfected before leaving the property
- *(Add your own actions below)*





Management of waste

LIST THE ACTIONS YOU WILL TAKE TO ENSURE:		
N/A	INTERNAL - Manure is managed within production areas so that it is not accessible to hens, rodents and other animals - Dead rodents are removed on a regular basis so that the chance of other animals discovering their corpses is limited - Dead hens are removed from sheds and ranges on a regular basis so that the chance of other hens and animals discovering their corpses is limited (Add your own actions below)	EXIT - Dead animals, after being removed from the production area(s), are disposed of in a way that prevents animals and people accessing them - Manure and used litter, after being removed from the production area(s), are disposed of in a way that prevents animals and people accessing them - Dead animals, manure and used litter, after being removed from the production area(s), are disposed of in a way that prevents any contaminants from leaching into ground water or other water sources - If waste products are being removed from farm via vehicle: ensuring vehicle is decontaminated before entering production area(s), particularly if it has removed dead animals/ manure from other poultry or pig premises (Add your own actions below)



STEP 5

Document the biosecurity control points on the farm

AREA	FARM
Required Inputs to zone	PEOPLE, VEHICLES, EQUIPMENT, FEED, WATER
Control point	Farm gate
Actions carried out at control point	
Documentation and training which support this	
How is effectiveness validated	

 S5

AREA	PRODUCTION
Required Inputs to zone	PEOPLE, VEHICLES, EQUIPMENT, EGGS
Control point	Site office
Actions carried out at control point	
Documentation and training which support this	
How is effectiveness validated	



S5

AREA	SHED
Required Inputs to zone	PEOPLE, EQUIPMENT, BIRDS
Control point	Shed gate
Actions carried out at control point	People ■ Hand washing, boot washing
Documentation and training which support this	People ■ WI for maintenance of boot bath ■ Staff biosecurity training
How is effectiveness validated	■ Maintenance records of boot bath ■ Daily shed records ■ Bird health checks and records

 S5

AREA	BIRD
Required Inputs to zone	PEOPLE, FEED, WATER, MEDICATION
Control point	Staff
Actions carried out at control point	
Documentation and training which support this	
How is effectiveness validated	

**STEP 6**

Implementing the biosecurity plan

Document staff biosecurity training program

If you don't already have a documented staff training process, you can use the following questions to help you document the farm's biosecurity training program.

Who is responsible for training:

Who receives training:

How is the training delivered:

(Information to include in this section includes: materials that are provided, any worksheets involved, description of the practical component, description of the assessment component, where training takes place and approximate length)

**S6**

How will you verify that this training is effective:

How will you know your staff are following the biosecurity plan on a day to day basis:

Actions to be taken if training is ineffective or biosecurity controls aren't being maintained by staff:

For existing staff, how often are they given a biosecurity refresher training:



SOPs

Table 8 – SOP Template

Title	
Objective	
Responsibilities	
Procedure	
Precautions	
Review date and further information	

**STEP 7**

Implementing a review cycle for the biosecurity management plan

How often will your plan be reviewed?

What events or changes would trigger an additional review outside of the standard review schedule?

How often will an audit of the plan be conducted and by whom?

Will a 3rd party biosecurity auditor be used, if so how frequently and who?

Booklet 3

Audit template and guideline

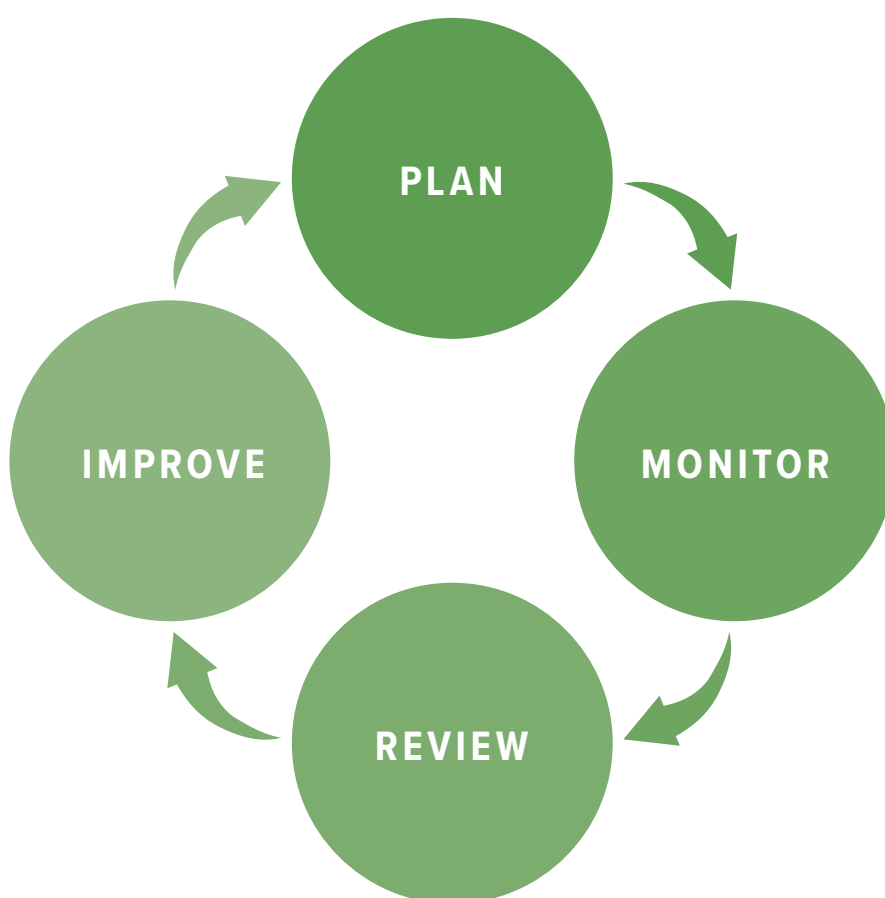
This booklet will provide you with the tools to undertake a farm biosecurity audit.

Conducting an audit of the farm before you fill in **Booklet 2** will help you understand where the gaps are in current biosecurity practices.

When you use **Booklet 3** to conduct an audit, make notes on any items which require attention and the actions you and your employees could take to make improvements.

The audit template is also a resource that can be copied when carrying out future biosecurity audits, which is a great way of evaluating the effectiveness of your biosecurity plan.

The guidelines (G1-G37) included in the audit template give a convenient summary of things that should be included in a biosecurity plan.



GUIDELINES	REQUIRED ACTION/ DOCUMENTS	RESPONSIBLE STAFF	WHEN/ FREQUENCY	RESOURCES
Record keeping				
G1. Movement records should be maintained for all animals moved onto the farm, between zones of different biosecurity status within the farm and from the farm.				
G2. Health monitoring records should be kept for different animal populations within the farm and should include details of any sickness, mortality, treatments, disease testing and relevant environmental information.				

GUIDELINES	REQUIRED ACTION/ DOCUMENTS	RESPONSIBLE STAFF	WHEN/ FREQUENCY	RESOURCES
Control points				
G3. The farm should have a secure perimeter fence or otherwise well-defined boundary, establishing a clearly defined biosecurity zone. Entrances to the property should be able to restrict vehicle and foot traffic and should be locked during all non-visitor hours.				
G4. All inputs to the farm (for example, animals, people, water, equipment and vehicles) and between zones within the farm should be assessed for potential biosecurity risks.				
G5. All production units (for example, sheds, ranges, grading floors) should have a unique and permanent identifier.				
G6. All production units should have appropriate features to prevent entry of wild animals and escape of farmed animals.				

GUIDELINES	REQUIRED ACTION/ DOCUMENTS	RESPONSIBLE STAFF	WHEN/ FREQUENCY	RESOURCES
Animals				
G7. Animals should only be introduced to the farm if they are of known health status and that status is of equal or better status than animals on the farm. Translocation approvals or permits must be obtained if required by the receiving state or territory authority.				
G8. If the health status of introduced animals is unknown the animals should be isolated from other farm populations in separate production areas or dedicated quarantine facilities.				
G9. Movement of animals between different farm populations should only occur following consideration of the disease risks and with a view to maintaining high health status.				
G10. If animal populations become sick, precautions should be taken to avoid contact with other farm populations until the cause is known and the situation resolved.				
G11. Sick or dead animals should be removed from production units as soon as possible and disposed of in accordance with section 9.6 (see G37-G 38).				
G12. Measures should be put in place to prevent escape of chickens.				
G13. Predatory or scavenging animal populations should be controlled or excluded from production facilities.				

GUIDELINES	REQUIRED ACTION/ DOCUMENTS	RESPONSIBLE STAFF	WHEN/ FREQUENCY	RESOURCES
People				
G14. Staff and visitor access should be managed (through access controls and signage) and the risk they present should be assessed.				
G15. The farm biosecurity rules should be explained to all visitors.				
G16. Measures to prevent disease entry should be applied to all persons entering and exiting the farm (for example, dedicated changing areas, farm footwear and hand washing facilities), and for persons moving between productions areas of different disease status within the farm.				
G17. Access to sensitive areas (for example, pullet rearing areas) should be restricted.				
G18. Production units should be managed separately to reduce the risk of disease spread within the farm. Staff should be assigned to production units based on risk.				
G19. If staff must work in multiple production units, higher health animals should be visited first and lower health or diseased animals last, with appropriate cleaning and disinfection protocols followed between visits.				

GUIDELINES	REQUIRED ACTION/ DOCUMENTS	RESPONSIBLE STAFF	WHEN/ FREQUENCY	RESOURCES
Equipment and vehicles				
G20. Any equipment or vehicle brought onto the farm should be assessed for biosecurity risk.				
G21. Procedures and infrastructure should be in place to clean and disinfect equipment and vehicles				
G22. The farm should have designated delivery and loading areas.				
G23. Separate equipment should be assigned for use in production units of different health status. Where equipment must be used in multiple production units it should be cleaned and disinfected prior to movement between units.				

GUIDELINES	REQUIRED ACTION/ DOCUMENTS	RESPONSIBLE STAFF	WHEN/ FREQUENCY	RESOURCES
Water				
G24. The biosecurity risk of a farm's water source should be considered and appropriate actions taken to manage any identified risks.				
G25. Infrastructure for decontamination of water should be adequately monitored and maintained to ensure it remains effective.				
G26. Water intake and outflows should be located to avoid cross-contamination. The flow of water within the farm should be managed to minimise the potential for diseases to spread between different production units or populations with different health status.				

GUIDELINES	REQUIRED ACTION/ DOCUMENTS	RESPONSIBLE STAFF	WHEN/ FREQUENCY	RESOURCES
Feed				
G27. The biosecurity risk of feeds should be considered and appropriate actions taken to manage any identified risks.				
G28. Manufactured feed producers or suppliers should provide evidence of quality assurance and control of feed				

GUIDELINES	REQUIRED ACTION/ DOCUMENTS	RESPONSIBLE STAFF	WHEN/ FREQUENCY	RESOURCES
Waste				
G29. Waste products (for example, dead animals, manure) should be assessed to determine potential biosecurity risk to the farm and the environment.				
G30. Containment, handling and disposal of waste products should minimise identified disease transmission risks.				

GUIDELINES	REQUIRED ACTION/ DOCUMENTS	RESPONSIBLE STAFF	WHEN/ FREQUENCY	RESOURCES
Emergency procedures				
G31. The farm biosecurity plan should include procedures for the response to a suspected emergency biosecurity incident.				
G32. All farm staff should understand the farm's emergency procedures and their own role in an emergency.				

GUIDELINES	REQUIRED ACTION/ DOCUMENTS	RESPONSIBLE STAFF	WHEN/ FREQUENCY	RESOURCES
Staff training				
G33. A staff member should be made responsible for overseeing farm biosecurity.				
G34. All farm staff should understand disease risks to the farm, the role of the farm biosecurity plan in managing disease risks and their responsibilities for its implementation, including response protocols.				
G35. Staff should receive training on aspects of the farm biosecurity plan relevant to their work and have access to the farm biosecurity plan and supporting procedures.				

GUIDELINES	REQUIRED ACTION/ DOCUMENTS	RESPONSIBLE STAFF	WHEN/ FREQUENCY	RESOURCES
Monitoring and audit				
G36. The farm biosecurity plan should include a schedule for routine review and identify any triggers for extraordinary review.				
G37. Audit of the farm biosecurity plan (and effective record keeping of formal audits) should be conducted to ensure it is being implemented effectively.				