

Establish a honey bee hive

Overview

This standard covers the establishment of a honey bee hive. The aim will be to establish a strong healthy colony of bees for the production of honey. This standard is suitable for those involved in establishing honey bee hives.

Establish a honey bee hive

Performance criteria*You must be able to:*

1. assess the risks associated with the activity to be carried out
 2. wear suitable clothing and personal protective equipment (PPE)
 3. identify an appropriate location for the honey bee hive
 4. select, prepare, use and maintain beekeeping equipment safely
- and correctly
5. select the appropriate type of hive
 6. confirm that the hive is correctly assembled, in accordance with
- requirements
7. position the hive on a suitable platform
 8. acquire honey bees and a queen for the hive at the correct time
 9. place the bees in the hive at the correct time, maintaining the
- safety of yourself and others and the health and welfare of the bees
10. place the queen in the hive maintaining separation until the colony
- has settled
11. maintain an ample supply of food until the worker bees establish a
- honeycomb
12. monitor the hive for signs of pests, diseases and disorders and
- take appropriate action if they are detected
13. maintain communication with colleagues and others involved in,

or affected by, the activity

14. maintain good hygiene practices and bio-security

15. carry out all work in accordance with relevant environmental
and

health and safety legislation, beekeeping legislation, risk
assessment requirements and codes of practice

16. maintain records of beekeeping activities

Establish a honey bee hive

Knowledge and understanding

You need to know and understand:

1. how to identify hazards and assess risks
 2. the type of clothing and personal protective equipment (PPE) suitable for beekeeping activities
 3. the beekeeping equipment required and how to use it safely and correctly for beekeeping activities
 4. how and where a honey bee hive should be sited and the factors that should be taken into account e.g. food source, risk to the public
 5. the different types of hives and components and how they are assembled and used
 6. the principles that govern the design of hives and frames e.g. the concept of bee space, and the main features of their construction
 7. the different strains of honey bees and their characteristics
 8. the different adult bees within the colony and their specific job
 9. how to introduce the bees and queen to the hive in a way that minimises stress
10. the stages in the life cycle of a honey bee
11. the elementary anatomy and biology of a honey bee
12. how the bees' behaviour can help to regulate the environment

Establish a honey bee hive

within the colony

13. the communication methods used by bees

14. the make up of a nucleus and how it can be used

15. how plants and bees are mutually beneficial to each other

16. elementary botany and foraging for bee farming

17. the principles involved in feeding honey bees and why it is important that no honey boxes are in place when bees are being fed sugar syrup

18. the nutritional value of honey to the honey bee colony

19. the management needed to cope with changes in seasons, geographic locations, weather conditions, the timing of the flowering of forage plants and sources of undesirable nectar

20. where to find information on pests, diseases and disorders affecting honey bee colonies, including which are notifiable, and the action to take if they are detected

21. the potential impact of pests, diseases and disorders on bee health, the management of the colony and their economic effects

22. the correct procedures to take in the event of an emergency

23. the importance of maintaining communication with those involved

in, or affected by, the activity

24. the importance of maintaining good hygiene practices and biosecurity and the methods for achieving these

25. your responsibilities under relevant environmental and health and

safety legislation, beekeeping legislation and codes of practice

26. the need for relevant insurance

27. the role of professional organisations and associations

28. the records that need to be kept and the importance of completing

them

Establish a honey bee hive

Glossary

Adult bees:

- worker
- drone
- queen

Beekeeping activities:

-
-
-
-
-
-
-

use of a smoker

assembly of a hive

removal of hive parts (roof, crown board, suppers, brood combs)

collection of honey

packaging

food labelling

cleaning hive components

Beekeeping equipment:

-
-
-
-
-
-
-

hive

smoker

fuel

personal protective equipment

hive tool

queen excluder

feeder

Communication methods used by bees:

Establish a honey bee hive

-
-
-
-
- food sharing
- dancing
- scenting
- vibration
- Emergency:
 - unhealthy brood
 - sting
 - swarm
- Hygiene practices:
 - protective clothing
 - hand washing
 - personal illness
 - cuts and wounds
- Pests, diseases and disorders:
 -
 -
 -
 -
 -
 -
 -
 -
 -
 -
 -
 -
 -
 -
 -
 -
 -
 -
 -
 -

Establish a honey bee hive

-
-
- small hive beetle
- tropilaelaps
- varroa mite
- wax moth
- tracheal mites
- Asian hornet
- nosema
- varroosis
- American foul brood
- European foul brood
- sac brood
- bald brood
- drone brood
- chalk brood
- amoeba
- starved colony
- chilled or overheated colony
- plant poisoning
- pesticide poisoning

Establish a honey bee hive

Developed by	Lantra
Version Number	20
Date Approved	01 Jan 2019
Indicative Review Date	31 Jan 2024
Validity	Current
Status	Original
Originating Organisation	Lantra
Original URN	lanlp40
Relevant Occupations	Beekeeper, Farmer
Suite	Agricultural Crop Production
Keywords	Brood; Comb; Beekeeper; Colony; Worker; Drone; Queen; Pollen; Nectar; Honey