



Australian Government

SIFCBCR015 Operate a backhoe, front-end loader or excavator

Release: 2

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Modification History

The details of this endorsed unit are in the table below. the latest information is at the top.

Release	Comments
2	Editorial correction to prerequisite code.

Application

This unit describes the performance outcomes, skills and knowledge required to operate a backhoe or front-end loader safely to excavate, level and spread soil, remove and fit relevant attachments and carry out machinery maintenance. It applies to cemetery and crematorium staff involved in burial works activities and work according to work health and safety, relevant legislation and workplace policies and procedures.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

SIFCWHS001 Identify hazards and assess risks in a cemetery or crematorium

Competency Field

Burial and Cremation Operations

Unit Sector

Cemetery and Crematoria

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1. Plan and prepare work.

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

- 1.1 Evaluate work activity and determine most productive operating techniques.
- 1.2 Obtain permits and licences where required.
- 1.3 Adjust, change and inflate tracks or tyres according to

- manufacturer guidelines and site conditions.
- 1.4 Carry out start-up, park, shut-down and communications procedures according to manufacturer guidelines and site specific requirements.
 - 1.5 Check backhoe or loader controls and functions and report faults.
2. Read and interpret site drawings and plans.
 - 2.1 Devise work schedules and methods consistent with work requirements.
 - 2.2 Interpret information written on survey pegs and establish depth and grade to site plans.
 - 2.3 Verify and mark location of services according to plans and drawings.
 - 2.4 Establish features from site drawings or plans.
 - 2.5 Clarify levels on survey pegs.
 3. Operate machinery.
 - 3.1 Drive machine according to traffic regulations site plans and operating conditions.
 - 3.2 Select appropriate machines and fit appropriate attachments according to work requirements, soil and rock types, and soil conditions.
 - 3.3 Maintain safe grip and productivity according to operating conditions.
 - 3.4 Strip topsoil according to job specifications.
 - 3.5 Carry out excavation boxing according to job specifications.
 - 3.6 Complete excavations around existing underground services according to work specifications.
 - 3.7 Mix materials according to work specifications.
 - 3.8 Complete backfilling, levelling, spreading and landfilling or landscaping according to work specifications and tolerances.
 4. Attach, secure, lift, carry and place materials.
 - 4.1 Establish weight of load and select and attach appropriate slings and gear.
 - 4.2 Secure and check slings and attachments.
 - 4.3 Carry out slinging, lifting, carrying and placing of materials according to work specifications, relevant legislation and manufacturer guidelines.
 - 4.4 Handle loads safely and identify and avoid on-site hazards.
 - 4.5 Observe communication protocols to ensure safety of operator and other personnel.
 - 4.6 Position machine according to type of haul vehicle and job specifications.

4.7 Load trucks and wagons according to work requirements.

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| 5. Maintain backhoe, front end loader or excavator. | 5.1 Complete routine operational servicing, lubrication and housekeeping tasks according to manufacturer guidelines. |
| | 5.2 Carry out minor maintenance according to manufacturer guidelines. |
| | 5.3 Remove and replace worn or defective parts according to manufacturer guidelines. |
| | 5.4 Provide support for major vehicle maintenance tasks. |
| | 5.5 Record maintenance work. |
| | 5.6 Clean and store machine attachments according to manufacturer guidelines. |
| 6. Shut down and clean up. | 6.1 Clean, maintain and store tools and equipment according to manufacturer guidelines. |
| | 6.2 Dispose of waste material according to relevant legislation. |

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

SIFTVM003A Operate a backhoe, front-end loader or excavator.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c2c3131e-4418-4aa3-8ff1-a855c95f7fd6>

Assessment Requirements for SIFCBCR015 Operate a backhoe, front-end loader or excavator

Modification History

Not applicable.

Performance Evidence

Evidence of the ability to:

- interpret site drawings and plans to develop work schedule and methods
- operate safely and maintain a backhoe, front-end loader or excavator inclusive of all attachments, tools and equipment according to supervisor instructions, workplace policies and procedures, and manufacturer guidelines
- conduct shut down operations according to manufacturer guidelines and clean up procedures after burial works.

Evidence of performance of operating a backhoe, front-end loader or excavator on two or more occasions is required to demonstrate consistency of performance and ability to respond to different situations.

Knowledge Evidence

Demonstrated knowledge of:

- uses for backhoe or loader in a cemetery, including:
 - loading dump trucks, wagons, hoppers, grizzlies and chutes
 - stockpiling
 - mixing materials
 - stripping and spreading topsoil
 - laser levelling
 - backfilling
 - excavating trenches
 - lifting materials
 - laying pipes
- backhoe or loader controls and features
- manufacturer guidelines for machine operation and maintenance
- telecommunication codes and conventions for the equipment:
 - CB radio
 - mobile phone
 - two-way radio
 - global positioning system

- local soil types and conditions and their relevance to machine operations
- operating conditions, soil conditions and on-site hazards that will impact on machinery operation, including:
 - uneven or unstable terrain
 - trees
 - overhead service lines
 - bridges
 - surrounding buildings
 - obstructions
 - structures
 - facilities
 - dangerous materials
 - recently filled trenches
 - unauthorised movement
- federal, state or territory, and local government legislation and regulations relating to work health and safety/occupational health and safety and required permits and licences for operating excavation machinery
- environmental impacts regarding operating machinery and minimal impact practices to reduce these
- workplace policies and procedures relevant to safe and efficient operations.

Assessment Conditions

Skills must be demonstrated in the workplace or in a simulated environment that is as industry realistic as possible. In a simulated environment, it is essential that assessment is conducted:

- using suitable facilities, equipment and resources, including:
 - a facility where a backhoe, front-end loader or excavator can be operated safely
 - a backhoe, front-end loader or excavator and attachments
 - site plans
- under industry conditions where there is:
 - integration of tasks with possible interruptions to work typical of the job role
 - speed and timing requirements that reflect commercial operating conditions

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

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