# Unit 336 Preparing and operating self-propelled bowsers to receive, transport and discharge materials in the workplace

12 credits

**Level:** 2
**UAN:** Y/506/4645

**Unit aim:**
The aim of this unit is to provide the learner with an awareness of:

- interpreting information
- adopting safe and healthy working practices
- selecting and or using materials, components and equipment for plant or machinery operations
- setting up, operating and shutting down plant or machinery to receive and transport bulk material loads.

*PER – Portfolio evidence reference SO – Site observation OQ – Oral question WQ – Written question WT – Witness testimony
PS – Product supplementary PD – Professional discussion

**Assessment criteria that are practical activities are highlighted in bold.**

| 1. Interpret the given information relating to the preparation and use of self-propelled bowsers to carry out transporting and discharging operations. | | | | | | | |
|---|---|---|---|---|---|---|---|
| You must be able to: | *PER | SO | OQ | WQ | WT | PS | PD |
| 1.1 **interpret and extract relevant information from:** | | | | | | | |
| a. **drawings** | | | | | | | |
| b. **specifications** | | | | | | | |
| c. **schedules** | | | | | | | |
| d. **risk assessment** | | | | | | | |
| e. **manufacturers' information** | | | | | | | |
| 1.2 **comply with information and/or instructions derived from risk assessments and method statements** | | | | | | | |
| 1.3 describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented | | | | | | | |
| 1.4 describe different types of information, their source and how they are interpreted in relation to: | | | | | | | |
| a. drawings | | | | | | | |
| b. specifications | | | | | | | |
| c. schedules | | | | | | | |
| d. method statements | | | | | | | |
| e. risk assessments | | | | | | | |
| f. manufacturers' information | | | | | | | |
| g. current regulations governing the operation of self-propelled bowsers. | | | | | | | |

| 2. Organise with others the sequence and operation in which transporting and discharging operations using self-propelled bowsers are to be carried out. | | | | | | | |
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| You must be able to: | *PER | SO | OQ | WQ | WT | PS | PD |
| 2.1 **organise the work according to given information or instructions** | | | | | | | |
| 2.2 describe how to communicate ideas between team members | | | | | | | |
| 2.3 **organise and communicate with team members and other associated occupations** | | | | | | | |
| 2.4 describe how to organise resources prior to and during transporting and discharging operations. | | | | | | | |

| 3. Know how to comply with relevant legislation and official guidance when carrying out transporting and discharging operations using self-propelled bowsers. | | | | | | | |
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| You must be able to: | *PER | SO | OQ | WQ | WT | PS | PD |
| 3.1 describe their responsibilities regarding potential accidents, health hazards and the environment whilst working: | | | | | | | |
| a. in the workplace | | | | | | | |
| b. below ground level | | | | | | | |
| c. in confined spaces | | | | | | | |
| d. at height | | | | | | | |
| e. with tools and equipment | | | | | | | |
| f. with materials and substances | | | | | | | |
| g. with movement/storage of materials | | | | | | | |
| h. by manual handling and mechanical lifting | | | | | | | |

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| 3.2 describe the organisational security procedures for: | | | | | | | |
| a. tools | | | | | | | |
| b. equipmets | | | | | | | |
| c. personal belongings | | | | | | | |
| In relation to: | | | | | | | |
| a. site | | | | | | | |
| b. workplace | | | | | | | |
| c. company | | | | | | | |
| d. operative | | | | | | | |
| 3.3 explain what the accident reporting procedures are and who is responsible for making reports. | | | | | | | |

| 4. Maintain safe and healthy working practices when preparing for and carrying out transporting and discharging operations using self-propelled bowsers. | | | | | | | |
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| You must be able to: | *PER | SO | OQ | WQ | WT | PS | PD |
| 4.1 **use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during transporting and discharging operations** | | | | | | | |
| 4.2 **demonstrate compliance with given information and relevant legislation when carrying out transporting and discharging operations using self-propelled bowsers in relation to two or more of the following:** | | | | | | | |
| a. **safe use and storage of plant or machinery** | | | | | | | |
| b. **safe use and storage of tools and equipment** | | | | | | | |
| c. **specific risks to health** | | | | | | | |

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| 4.3 explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to self-propelled bowser use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to: | | | | | | | |
| a. collective protective measures | | | | | | | |
| b. Personal Protective Equipment (PPE) | | | | | | | |
| c. Respiratory Protective Equipment (RPE) | | | | | | | |
| d. Local Exhaust Ventilation (LEV) | | | | | | | |
| 4.4 describe how the relevant health and safety control equipment should be used in accordance with the given working instructions | | | | | | | |
| 4.5 describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with: | | | | | | | |
| a. fires | | | | | | | |
| b. spillages | | | | | | | |
| c. injuries | | | | | | | |
| d. other task-related activities. | | | | | | | |

| 5. Request and select the required quantity and quality of resources to prepare for and carry out transporting and discharging operations using self-propelled bowsers. | | | | | | | |
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| You must be able to: | *PER | SO | OQ | WQ | WT | PS | PD |
| 5.1 **request and select resources associated with self-propelled bowsers in relation to:** | | | | | | | |
| a. **consumable** | | | | | | | |
| b. **materials** | | | | | | | |
| c. **tools** | | | | | | | |
| d. **ancillary equipment and/or accessories** | | | | | | | |

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| 5.2 describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to: | | | | | | | |
| a. consumables | | | | | | | |
| b. lubricants and fuels | | | | | | | |
| c. attachments and load coverings | | | | | | | |
| d. hand tools, ancillary equipment and accessories | | | | | | | |
| 5.3 describe how the resources should be used correctly and how problems associated with the resources are reported | | | | | | | |
| 5.4 explain why the organisational procedures have been developed and how they are used for the selection of required resources | | | | | | | |
| 5.5 describe any potential hazards associated with the resources and methods of work | | | | | | | |
| 5.6 describe how to identify: | | | | | | | |
| a. weight | | | | | | | |
| b. quantity | | | | | | | |
| c. pressure | | | | | | | |
| d. length | | | | | | | |
| e. area | | | | | | | |
| associated with the method/procedures to carry out transporting and discharging operations. | | | | | | | |

| 6. Minimise the risk of damage to the work and surrounding area when preparing to and transporting and discharging materials. | | | | | | | |
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| You must be able to: | *PER | SO | OQ | WQ | WT | PS | PD |
| 6.1 **protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures** | | | | | | | |
| 6.2 **prevent damage and maintain a clean work space** | | | | | | | |
| 6.3 **dispose of waste in accordance with current legislation** | | | | | | | |

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| 6.4 describe how to protect work from damage and the purpose of protection in relation to: | | | | | | | |
| a. general workplace activities | | | | | | | |
| b. other occupations | | | | | | | |
| c. adverse weather conditions | | | | | | | |
| 6.5 explain why the disposal of waste should be carried out safely in accordance with: | | | | | | | |
| a. environmental responsibilities | | | | | | | |
| b. organisational procedures | | | | | | | |
| c. manufacturers' information | | | | | | | |
| d. statutory regulations | | | | | | | |
| e. official guidance. | | | | | | | |

| 7. Complete the work within the allocated time when preparing to and transporting and discharging materials using self-propelled bowsers. | | | | | | | |
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| You must be able to: | *PER | SO | OQ | WQ | WT | PS | PD |
| 7.1 **demonstrate completion of the work within the allocated time** | | | | | | | |
| 7.2 describe the purpose of the work programme and describe why deadlines should be kept in relation to: | | | | | | | |
| a. types of progress charts, timetables and estimated times | | | | | | | |
| b. organisational procedures for reporting circumstances which will affect the work programme. | | | | | | | |

| 8. Comply with the given contract information to receive, transport and discharge materials using self-propelled bowsers to the required specification. | | | | | | | |
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| You must be able to: | *PER | SO | OQ | WQ | WT | PS | PD |
| 8.1 **demonstrate the following work skills when preparing for and transporting and discharging materials using self-propelled bowsers:** | | | | | | | |
| a. **checking** | | | | | | | |
| b. **adjusting** | | | | | | | |
| c. **communicating** | | | | | | | |
| d. **manoeuvring** | | | | | | | |
| e. **positioning** | | | | | | | |
| f. **receiving** | | | | | | | |
| g. **depositing** | | | | | | | |
| h. **transporting** | | | | | | | |
| i. **discharging** | | | | | | | |
| j. **cleaning** | | | | | | | |
| 8.2 **use and maintain hand tools, ancillary equipment and/or accessories** | | | | | | | |
| 8.3 **prepare to, position, set up and operate self-propelled bowsers to receive, transport and discharge fluid materials, at various locations, to given working instructions** | | | | | | | |
| 8.4 **shut down and secure self-propelled bowsers** | | | | | | | |

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| 8.5 describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to: | | | | | | | |
| a. identify the characteristics of the self-propelled bowsers used for transporting and discharging work | | | | | | | |
| b. carry out function checks to receive, transport and discharge loads | | | | | | | |
| c. identify characteristics, type and volume of loads | | | | | | | |
| d. prepare, set up and adjust for operational requirements | | | | | | | |
| e. carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area | | | | | | | |
| f. recognise and determine when specific skills and knowledge are required and report accordingly | | | | | | | |
| 8.6 describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to: | | | | | | | |
| a. identify the area for discharging | | | | | | | |
| b. check to avoid damage to structures and utilities service apparatus | | | | | | | |
| c. receive, transport and discharge materials safely and securely | | | | | | | |
| d. be on the public highway | | | | | | | |
| e. shut down and secure the self-propelled bowser | | | | | | | |
| f. use hand tools, ancillary equipment and accessories | | | | | | | |
| 8.7 describe the needs of other occupations and how to effectively communicate within a team when preparing to and carrying out transporting and discharging operations | | | | | | | |
| 8.8 describe how to maintain the: | | | | | | | |
| a. plant and machinery | | | | | | | |
| b. hand tools | | | | | | | |
| c. ancillary equipment | | | | | | | |
| used for transporting and discharging operations. | | | | | | | |

# Unit 336 Preparing and operating self-propelled bowsers to receive, transport and discharge materials in the workplace

## Declaration

I confirm that the evidence supplied for the above unit is authentic and a true representation of my own work. The work logged is my own work carried out during my normal work duties.

| | |
|---|---|
| **Candidate name:** | |
| **Candidate signature:** | |
| **Date:** | |

I confirm that this candidate has achieved all the requirements of this unit with the evidence listed. Assessment was conducted under the specified conditions and context, and is valid, authentic, reliable, current and sufficient.

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| **Assessor name:** | |
| **Assessor signature:** | |
| **Date:** | |

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|---|---|
| **IQA name:** | |
| **IQA signature:** | |
| **Date:** | |