

## Resources required

|                        |   |
|------------------------|---|
| <b>Machine</b>         | <ul style="list-style-type: none"> <li>Forward tipping dumper (that meets current legislation) with: <ul style="list-style-type: none"> <li>a seatbelt and ROPS (FOPS if fitted)</li> <li>hydraulic operated transmission (i.e., shuttle, hydrostatic or powershift)</li> </ul> </li> </ul>   |
| <b>Area</b>            | <ul style="list-style-type: none"> <li>Ground to be Risk Assessed, clear of hazards and underground services, segregated from other activities which must include: <ul style="list-style-type: none"> <li>rough undulating terrain</li> <li>Haul roads, routes between loading and discharge points and access ramps should be of sufficient size and strength, well maintained and clear of voids, potholes, structures etc.</li> <li>slope or slopes (The slope must have an incline of 18% (1:5.5) with sufficient manoeuvring area at the top, or a straight ramp with an up and down route with a flat area at the summit)</li> <li>a stockpile of material for loading</li> <li>a straight run for reversing (minimum 30 metres)</li> <li>trench or edge for unloading purposes (1 x metre deep and a minimum of 2 x the machines width)</li> </ul> </li> </ul>                                       |
| <b>Other equipment</b> | <ul style="list-style-type: none"> <li>Machine to load the material (If using a loading shovel/ 180° Excavator front loader, the bucket width should not exceed that of the dumper skip)</li> <li>Edge protection</li> <li>Items to create restrictions for travelling and manoeuvring</li> </ul>   |
| <b>Loads</b>           | <ul style="list-style-type: none"> <li>Suitable and sufficient material for loading and discharging</li> </ul>  |
| <b>Notes</b>           | <ul style="list-style-type: none"> <li>The machine selected for the test must be of at least 2 tonnes capacity, meet the specification for the required endorsement, be in serviceable condition and conform with current legislation</li> <li>The operator's manual must be with the dumper <ul style="list-style-type: none"> <li>Edge protection must be of substantial build to restrain a machine from inadvertently entering the trench (Stop blocks should be in excess of half the height of the wheel of the axle height and positioned at least the same distance away from the lip of the edge as its depth)</li> </ul> </li> <li>Type-specific additional requirement – rotating seat types – rotating seat system functional and set for intended direction of travel</li> <li>Identify and select correct PPE and weather-related equipment to be worn during practical activities</li> </ul> |

# Technical test - Practical

## Forward tipping dumper - A09

### Activity instructions

|   |  |
|---|--|
| <b>Sequence</b>   | <ul style="list-style-type: none"> <li>Activity 1 must be undertaken at the start of the test</li> <li>Activity 2 may be spread over the period of the test</li> <li>Activity 8 must be undertaken at the end of the test</li> </ul> <p>Certain activities (The test) must be completed within a given time. The specifications' section gives further information</p>   |
| <b>Preparing for work</b>                                   | <ol style="list-style-type: none"> <li>Complete all manufacturers' pre-start and running checks and prepare the dumper for travel as detailed in the operator's manual which must be referred to by the candidate during the activity <ul style="list-style-type: none"> <li>Additional information to be identified by the candidate referring to the operator's manual. Tester to decide what information will be identified</li> </ul> </li> </ol> <p>Note: Rotating seat types – rotating seat system functional and set for intended direction of travel. Must be locked in the Forward Tip position during the test.</p> |
| <b>Travelling and manoeuvring (refer to specifications)</b> | <ol style="list-style-type: none"> <li>In a loaded and unloaded state: <ul style="list-style-type: none"> <li>travel up and down the slope</li> <li>stop and start on the slope in the up direction</li> <li>stop and start on the slope in the down direction</li> <li>pass through a chicane executing full right- and left-hand turns in a forward and reverse direction (un-laden and laden)</li> <li>travel over rough terrain</li> <li>reverse (un-laden and laden) in a straight line for a minimum of 30 metres and pass through a restriction at the end of the run</li> </ul> </li> </ol>                            |
| <b>Setting up for work</b>                                  | <ol style="list-style-type: none"> <li>Position the dumper for loading</li> <li>Establish communication with the loading machine operator</li> </ol>   |
| <b>Working tasks (refer to specifications)</b>              | <ol style="list-style-type: none"> <li>Receive a load</li> <li>Discharge the load into the edge or excavation</li> <li>Form a stockpile</li> </ol>   |
| <b>Completing work</b>                                      | <ol style="list-style-type: none"> <li>Clean out the skip fully</li> </ol>   |
| <b>Shut down</b>  | <ol style="list-style-type: none"> <li>Park the dumper and carry out shut-down and securing procedures</li> </ol>  |
|   | <ul style="list-style-type: none"> <li>If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>   |

# Technical test - Practical

## Forward tipping dumper - A09



### Activity measurements

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|   |  |
|---|--|
| <b>Travelling and reversing restriction</b> | <ul style="list-style-type: none"><li>• 500 mm</li></ul>                                   |
| <b>Discharging</b>                          | <ul style="list-style-type: none"><li>• Minimum of 3 loads (activity 6)</li></ul>          |
| <b>Forming a stockpile</b>                  | <ul style="list-style-type: none"><li>• Minimum of 2 loads (activity 7)</li></ul>          |
| <b>Test timings</b>                         | <ul style="list-style-type: none"><li>• The test must be completed within 1 hour</li></ul> |

# Technical test - Practical

## Forward tipping dumper - A09



### Basic details

|  |                     |
|--|---------------------|
| Test ref:  | Candidate name:     |
| Tester name:   | Candidate ref:      |
| Tester ref:  | Date of test:       |
| Endorsement: A <input type="checkbox"/> B <input type="checkbox"/> | Start time of test: |
| Make and model:  | Duration:           |

| Mandatory  |  | Correctly carried out during the test? | Y/N |
|------------|--|--|-----|
| Preparing  | 1 All pre-start and running checks (or responses to relevant questions)        |  |     |
|            | 2 Identify and select correct PPE and weather-related equipment to be worn     |  |     |
| Travelling | 3 Dumper set for travel  |  |     |
|            | 4 Seat belt worn   |  |     |
|            | 5 Restrictions cleared   |  |     |
|            | 6 Encountered hazards cleared  |  |     |
|            | 7 Full control maintained when ascending and descending slopes                 |  |     |
|            | 8 No opposite movement of intended direction when restarting on slopes         |  |     |
|            | 9 Travel direction on slopes   |  |     |
|            | 10 Straight line kept for loaded reversing activity                            |  |     |
| Setting up | 11 Allocated area checked and clear of hazards prior to being loaded           |  |     |
|            | 12 Establish communication with loading machine operator                       |  |     |
|            | 13 Dumper is parked on firm level ground, parking brake applied, and isolated  |  |     |
| Working    | 14 Safe place selected by operator during loading                              |  |     |
|            | 15 Appropriate speed used when approaching discharge point                     |  |     |
|            | 16 Edge protection applied or checked and used prior to discharging load       |  |     |
|            | 17 Parking brake applied and neutral selected before discharging loads         |  |     |
|            | 18 Vehicle marginally reversed after discharging to clear body (if needed)     |  |     |
|            | 19 Skip fully lowered before leaving discharging point                         |  |     |
|            | 20 Stockpile formed using minimum loads  |  |     |
| Completing | 21 Skip cleaned of material  |  |     |
| Shutdown   | 22 All shut down and securing procedures                                       |  |     |
| Other      | 23 Legislation, manufacturers and health and safety requirements complied with |  |     |
|            | 24 Activities (test) completed within the given time                           |  |     |

All of these items must be awarded

Achieved / Not achieved

| Faults                       |    | Candidate incorrectly carried out the following:           |  |  | Fault           | Mark | Penalty |
|------------------------------|----|--|--|--|-----------------|------|---------|
| Travelling                   | 1  | Dumper mounting and dismounting                            |  |  |                 | 1    |         |
|                              | 2  | Identify information from the Operator's Manual            |  |  |                 | 2    |         |
|                              | 3  | Full observation before moving and reversing               |  |  |                 | 3    |         |
|                              | 4  | Full observation whilst travelling                         |  |  |                 | 2    |         |
|                              | 5  | Engaging transmission drive smoothly from rest             |  |  |                 | 1    |         |
|                              | 6  | Matching travel speed to the ground type and conditions    |  |  |                 | 2    |         |
|                              | 7  | Matching gear ratios to ground speed                       |  |  |                 | 1    |         |
| Working                      | 8  | Dumper positioning for loading                             |  |  |                 | 2    |         |
|                              | 9  | Dumper positioning square to the edge prior to discharging |  |  |                 | 2    |         |
|                              | 10 | Skip fully empty after discharging                         |  |  |                 | 2    |         |
|                              | 11 | Smooth use of steering and braking controls                |  |  |                 | 1    |         |
| Not exceeded eight penalties |    |  |  |  | Total penalties |      |         |

Achieved / Not achieved