

Quarries Skills Certification Scheme

Candidate Pack for the Training and Assessment Programme – Articulated Dumper

Please read this document carefully. Further information and clarification may be obtained from the QSCS Unit phone 01 607 0500

Guidance Notes for Candidates

The following documents are also attached:

- Part 1 – Application
- Part 2 – Skills Self-Analysis
- Part 3 – Endorsement of Operating Competence
- Part 4 – Practical Test Criteria

Aim of Programme

The plant training and assessment programme enables trained quarry plant operators to gain recognition for their achievements by the way of certification, and provide an opportunity for participants to demonstrate their skills, knowledge and attitudes associated with quarry plant operations, which provides suitable certification.

Candidate Profile

Candidates for this programme must:

- Have at least six months full time experience operating as a trainee Articulated Dumper operator in accordance with the 1st Schedule – of the Safety, Health and Welfare at Work (Quarries) Regulations 2008 – S.I. No. 28 of 2008. The six months experience must be within the last two years.
- Has undertaken Health and Safety Awareness Training including the following: Employees duties/responsibilities, Health and Hygiene, Traffic Management and site specific hazards / safety
- Be at least 18 years of age

Note: The above items must be verified by the current or previous employer (Part 1 of this pack)

Application Requirements

- Sections A, B and E of Part 1 need to be completed by the applicant with sections C and D completed by the employer.
- Section E must list at least six months full time quarry experience operating as a trainee articulated dumper operator.
- Part 2 - Skills Self-analysis and Part 3 - Endorsement of Operating Competence must be completed and submitted along with Part 1 to the chosen Approved Training Organisation prior to or on the day of attending the one-day training and assessment programme. Failure to do so will result in the Candidate being unable to complete the programme.
- **Candidates must bring with them on the day: - a passport sized photograph, plus safety helmet, safety boots, reflective 'hi-viz' jacket and gloves.**

One Day Programme Content

Induction

Registration and induction will be undertaken at the start of the day. Candidates **must** present to the course assessor, a photograph and Parts 1, 2 and 3 if not already submitted.

Corrective Training

Candidates will undertake a minimum 3 hour corrective training session with the course instructor. Corrective training cannot give skills and knowledge not held, but allows the experienced operator to eliminate 'bad habits' gained on site.

Please note that the instructor has the right to refuse the Candidate access to the test if they have dangerous operating skills that contravene any part of the Safety, Health and Welfare regulations.

Theory Test

On completion of any corrective training, Candidates are allowed 45 minutes to undertake a multi-choice question paper. Questions will be based on subjects about:

- Legislation and regulations
- Employer and employee responsibilities
- Safe working practices
- Machine components and functions
- Correct operating techniques
- Pre-use checks and basic maintenance
- Types and characteristics of materials and loads
- Site safety
- Shut down and securing procedures

Subjects that the questions will be based on will be covered during the corrective training.

To be successful on the theory test, Candidates must achieve a minimum of 70% of the total available marks. Candidates who achieve a minimum of 85% will be awarded a credit.

Practical Test

On the test the Candidate will demonstrate tasks with the dumper. The tasks to be undertaken, equipment required and grading sheet are contained in Part 4 of this pack – Practical Test criteria. Part 4 of this pack details the equipment and resources needed for the test and the tasks the Candidate will be expected to carry out with an articulated dumper.

The grading sheet is divided into essential items and scored marks. Scored marks allow a limited number of minor errors to be made. To succeed, the Candidate must achieve all essential items and not exceed the maximum score. Candidates who score no marks as well as all the essential marks will be awarded a credit.

The practical has a maximum time that all tasks must be completed within.

Feedback and Certification

If a Candidate meets the required standard, the approved training organisation will send the relevant assessment documentation to SOLAS for certification and registration. The QSCS card is printed and posted to the Provider for distribution. A FETAC certificate will be awarded as a result of a pass on the one-day programme.

Candidates who achieve a credit in the theory test **and** practical test will be awarded an overall credit.

Candidates who are referred will receive written feedback from the assessor, and may be advised to undertake further corrective training and/or site experience.

If a Candidate is successful in the theory but not the practical part of the test, then they may re-attempt just the practical part. If the Candidate has NOT been successful in the theory test then they may not continue to attempt the practical test.

This concession may only occur if the Candidate returns to the same approved training organisation. If they choose to go to a different organisation, they may have to do both the practical and theory parts again.

Assessment Requirements

Should a Candidate have any particular assessment requirements i.e. need a translator or reader/writer or any other form of special needs, the approved training organisation **must** be informed well in advance of attending the one day programme so that the appropriate help may be sourced.

Information regarding a Candidate's particular requirements will be treated with the strictest confidence by the approved training organisation.

REMINDER

Candidates must bring with them on the day:

- **Passport sized photograph** ☐
- **Safety helmet** ☐
- **Safety boots** ☐
- **Reflective 'hi-viz' jacket** ☐
- **Gloves** ☐
- **Contents of the Candidate Pack are fully completed and signed by the Candidate and their employer.** ☐

Further information and clarification may be obtained from the QSCS Unit phone 01 607 0500

Part 1

Quarries Skills Certification Scheme

Application Details

Section A

Applicant Details

Surname Forenames.....

Address

.....

.....Date of Birth.....

Tel: PPS Number

Section B

Applicant Declaration

I confirm that the information detailed in this application, and any submitted information is valid, genuine and correct.

Please sign

Section C

Employer Details

Employer/Company Name.....

Address

.....

..... Postcode.....

Tel: Are you self-employed? Yes ☐ No ☐

Section D

Employer Confirmation (including self-employed)

The named individual signing this section must be in a supervisory or managerial position, nominated by the employer organisation.

We/I the employer confirm that:

- the applicant has as least six months full time quarry experience operating as a trainee articulated dumper operator within the last two years.
- the applicant has undertaken Health and Safety Awareness Training including the following: Employees duties/responsibilities, Health and Hygiene, Traffic Management and site specific hazards / safety
- the information detailed in this application, and any submitted information is valid, genuine and correct.

Please sign

NamePosition

Please briefly list work carried out with an articulated dumper for at least six months, including dates and location of work.

[illegible]

Part 2

Quarries Skills Certification Scheme

Skills Self-Analysis Articulated Dumper

Introduction

The aim of this form is to allow applicants to measure their knowledge and experience on the safe use of articulated dumpers against the questions below. This is to ensure that all those attending the Experienced Worker One-day Programme have sufficient skills and knowledge to comfortably meet the required standards. This section **must** be completed and returned to the chosen Approved Training Organisation prior to or on the day of attending the one-day training and assessment programme.

Instructions to the Applicant

Please take your time and answer all questions honestly, as dishonest answers mean that you may be unsuccessful on the course programme.

On completion, add up the total number of questions you have scored as 'yes' and refer to the Assessment Grading which will analyse your knowledge and experience

Assessment Questions

Please answer **all** questions as indicated:

Note: the term 'correctly' means conforming with manufacturer's instructions, legislation, regulations and industry best practice.

Question	Yes	No
1. can you identify and use all the controls correctly?	<input type="checkbox"/>	<input type="checkbox"/>
2. can you extract information from the operators handbook?	<input type="checkbox"/>	<input type="checkbox"/>
3. do you correctly carry out all pre-use and running checks?	<input type="checkbox"/>	<input type="checkbox"/>
4. can you correctly configure the dumper for quarry-site and road travel?	<input type="checkbox"/>	<input type="checkbox"/>
5. have you travelled over differing types of terrain including rough, undulating ground whilst loaded and unloaded?	<input type="checkbox"/>	<input type="checkbox"/>
6. can you travel up & down steep substantial slopes correctly loaded and unloaded?	<input type="checkbox"/>	<input type="checkbox"/>
7. are you able to manoeuvre in very confined and restricted areas?	<input type="checkbox"/>	<input type="checkbox"/>
8. can you correctly position and set the dumper to receive loads?	<input type="checkbox"/>	<input type="checkbox"/>
9. do you know where you (the driver) must be when being loaded?	<input type="checkbox"/>	<input type="checkbox"/>
10. can you explain why a dump truck should never be overloaded?	<input type="checkbox"/>	<input type="checkbox"/>
11. do you why materials must be segregated when forming stockpiling materials/soils	<input type="checkbox"/>	<input type="checkbox"/>
12. do you know the minimum distance that should be kept from an excavation and why?	<input type="checkbox"/>	<input type="checkbox"/>
13. do you know what the recommended minimum distance is when tipping near power lines?	<input type="checkbox"/>	<input type="checkbox"/>

cont'd

14. do you know what the correct safety procedures are before tipping over an edge?	<input type="checkbox"/>	<input type="checkbox"/>
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| 15. can you explain the reason for having a 'berm' or raised edge near an excavation? | <input type="checkbox"/> | <input type="checkbox"/> |
| 16. do you know what the correct procedures are when placing or unloading the dump truck onto, or from a vehicle bed or trailer? | <input type="checkbox"/> | <input type="checkbox"/> |
| 17. can you shut down and secure the dump truck correctly after work | <input type="checkbox"/> | <input type="checkbox"/> |

Yes total _____

Assessment Grading

If you have scored 13 - 17

You appear to have a good level of understanding of dumper operations to comfortably participate on the experienced operator course programme.

If you have scored 9 – 12

Your understanding of dumper operations is limited and we advise that you acquire further knowledge before attending the experienced operator course programme. Remedial training and further site experience is advised.

Less than 9

Your supposed understanding of dumper operations is very limited and we strongly advise you not to attend the course until you have undertaken remedial or full training.

Candidate Surname Forenames.....

Signature Date

Part 3

Quarries Skills Certification Scheme

Endorsement of Operating Competence Articulated Dumper

Applicant Name.....

This endorsement of operating competence must be completed by an existing or previous employer. This part can only be completed by a supervisor or line manager of the employer.

The endorsing individual should only initial the statements where they can confirm that the applicant can carry out the work. Some endorsements may require the initials of more than one endorser. Copies of this form may be made if there are more than two endorsers signing.

Each statement must be initialled by the endorser. The applicant can only be considered competent providing **all** statements are signed by one or more endorsers in the Endorsers details section.

I consider that the above named applicant is able to competently:	Initials
1. Check, inspect and maintain a dump truck for efficient and safe use under quarries site conditions	
2. Safely operate and control a fully laden dump truck over varying terrain and inclines	
3. Ensure loads are safe and within the capacity of the dump truck	
4. Discharge materials into excavations and/or form stockpiles using all safety precautions	
5. Manoeuvre and position a dump truck for receiving and discharging loads	
6. Shut down, secure and leave the dump truck in a safe condition	
7. Follow given instructions and manufacturers requirements when working with the dumper	

Details of Endorser

Full Name:Date:.....

Company name and address:

.....

.....Postcode: Contact Tel no:

Position:Signature.....

Part 4

Practical Test Specifications and Grading Sheet Articulated Dumper

Equipment and Resources

- Serviceable rear tipping articulated chassis type dumper with a payload of at least 20tonnes, equipped with a R.O.P.S. and seatbelt, with the operator's manual. The dumper must comply with current legislative requirements.
- A means of loading the dumper. i.e. loader, excavator, conveyer. The operator must be competent and possess the relevant QSCS registration card (where required).
- A designated unloading area, being a trench or an edge, at least 1.0 metre deep, and a minimum of 3 x the width of the dumper, with appropriate edge protection.
- A stockpile of material for loading
- A driving area which must include:
 - uneven, rough terrain,
 - a slope(s) not less than 18% (1:5.5) incline (important – see notes)
 - a straight run at least 50 metres in length.
- Cones/materials etc to create restrictions for travelling and manoeuvring.

Tasks

The Candidate needs to:

1. Carry out full pre-start and running checks as required by the manufacturer.
2. Prepare the dumper for travel, and drive to the loading area to receive loads. The route must include:
 - passing through a restriction being no more than the width of the dumper plus 800mm, in a forward and reverse direction,
 - stopping and restarting on the incline in the up direction,
 - stopping and restarting on the incline in the down direction,
 - travelling over uneven, rough terrain.
3. When fully laden, travel the route as in task 2. Whilst travelling in the down direction on the incline, stop and re-start in the opposite direction for a minimum distance of 5 metres.
4. Discharge the load into the excavation or edge.
5. Travel the dumper back to the loading area to receive a fresh load.
6. When fully laden travel to the tipping point and discharge the load. This load is to be adjacent to the previous tipping point.
7. Travel the dumper to receive a fresh load. Form a stockpile consisting of 3 x loads
8. Whilst loaded, reverse the dumper in a straight line for a minimum of 30 metres.
9. Travel to a park position, shut down and secure.

Time

- The Candidate must complete all tasks within 1. 25 hours

Notes

- Verbal questions may be used for task 1, but **only** on items not able to be checked due to heat of the engine, i.e. coolant, oil level etc.
- Task 8 may be carried out during tasks 3 to 7.
- The incline must be either one ramp with sufficient manoeuvring area on top **or** two ramps with a level area at the top where the dumper may be halted.

Example of marking points

1.	Carry out pre-start and running checks (verbal questions correctly answered if engine hot)
2.	Clear any restrictions encountered whilst travelling
3.	Travel the dump truck correctly on inclines in a laden and unladen state
4.	Maintain full control of the vehicle when climbing and descending inclines
5.	Keep the dumper in a straight line during the specified reversing exercise
6.	Use the appropriate edge protection prior to tipping the load
7.	Correctly carry out shut down procedures
8.	Conform with legislation and manufacturers instructions
9.	Complete test within the given time