

Construction Skills Certification Scheme

CSCS Slinger Signaller Candidate Pack

Please read this document carefully. Further information and clarification may be obtained from the CSCS Operations Unit, phone 01 533 2500

Guidance Notes for Candidates

The following documents are also attached:

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

Aim of Programme

The CSCS Slinger Signalling training and assessment programme enables trained construction Slinger Signallers 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 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 slinger signaller in construction in accordance with the 5th Schedule – of the Safety, Health and Welfare at Work (Construction) Regulations 2013 – S.I. No. 291 of 2013. The six months experience must be within the last two years.
- Possess a valid 'Safe Pass' registration card
- Be at least 18 years of age

Note: The above items must be verified by the current or previous employer (Part 3 of this pack)

Application Requirements

- Approved Training organisations must send the Candidate Pack and Course Notes to the Candidate at least five days before the course start date.
- Sections A B and C of Part 2 need to be completed by the applicant with Part 3 completed by the employer.
- Section C of part 2 must list at least six months full time experience operating as a trainee slinger signaller.
- Part 1 - Skills Self-analysis, Part 2 Applicant Details and Part 3 - Endorsement of Operating Competence must be completed and submitted to the chosen Approved Training Organisation at least one-day prior to attending the one-day training and assessment course. 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, their valid Safe Pass card plus safety helmet, safety boots, reflective 'hi-viz' jacket and gloves.

Construction Skills Certification Scheme

CSCS Slinger Signaller Candidate Pack

One Day Programme Content

Induction

Registration and induction will be undertaken at the start of the day. Candidates **must** present their Safe Pass card and photograph to the assessor. Parts 1, 2 and 3 must be already submitted.

Skills Validation Session

Candidates will undertake a minimum of a 3 hour Skills Validation Session with the course instructor. The Skills Validation Session cannot give skills and knowledge not held, but allows trained operators 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 demonstrated dangerous operating skills that contravene any part of the Safety, Health and Welfare Regulations.

Theory Test

On completion of the Skills Validation Session, candidates are allowed 45 minutes to undertake a multi-choice question paper. Questions will be based on the following:

- Legislation and regulations
- Employer and employee responsibilities
- Safe working practices
- Equipment, components and functions
- Correct slinging techniques
- Pre-use checks and basic maintenance
- Communication procedures
- Types and characteristics of materials and loads
- Site safety
- Completion of work procedures

Subjects that the questions will be based on will be covered during the Skills Validation Session.

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 as a slinger/signaller with a crane. The tasks to be undertaken, equipment required and a sample grading sheet is 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 slinging and signalling tasks the candidate will be expected to carry out.

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 penalty marks as well as all the essential marks will be awarded a credit. The practical test has a maximum time of 1 hour in which all tasks must be completed.

Construction Skills Certification Scheme

CSCS Slinger Signaller Candidate Pack

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 CSCS card is printed and posted to the training provider for distribution. A FETAC certificate will also 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 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** attempt the practical test.

This concession may only occur if the candidate returns to the same approved trainer and training organisation within 9 months. If they choose to go to a different organisation, they will have to do both the practical and theory parts again.

For learners who do not reach the required standard, a period of 5 days must elapse before they can retake the test.

Registration Card Duration

CSCS registration cards are valid for five years and can be renewed up to six months before the expiry date

Cancellation of Certificates and Cards

Where it is discovered that the information provided by the Candidate was incorrect or the programme was not delivered in accordance with SOLAS specifications the Certification and registration card may be withdrawn and the relevant authorities notified.

Construction Skills Certification Scheme

Skills Self-Analysis CSCS Slinger Signaller - Part 1

Introduction

The aim of this form is to allow applicants to measure their knowledge and experience on the safe operations of slinging and signalling against the questions below. This is to ensure that all those attending the One-day Trained Operator 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 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 un-successful 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:

	Yes	No
1. Can you identify markings and other relevant information relating to lifting gear?	<input type="checkbox"/>	<input type="checkbox"/>
2. Can you estimate the weight and centre of gravity for different types of loads?	<input type="checkbox"/>	<input type="checkbox"/>
3. Are you able to select the correct lifting gear for different types of loads?	<input type="checkbox"/>	<input type="checkbox"/>
4. Have you slung various loads including balanced, unbalanced and loose?	<input type="checkbox"/>	<input type="checkbox"/>
5. Are you able to guide various loads and place them accurately in confined areas?	<input type="checkbox"/>	<input type="checkbox"/>
6. Can you demonstrate the correct hand signals to a crane operator?	<input type="checkbox"/>	<input type="checkbox"/>
7. Do you know how to prevent a long load from swinging?	<input type="checkbox"/>	<input type="checkbox"/>
8. Do you know what type of lifting gear to use for a bundled load?	<input type="checkbox"/>	<input type="checkbox"/>
9. Do you know what is meant by S.W.L.?	<input type="checkbox"/>	<input type="checkbox"/>
10. Do you know what a regular inspection of lifting gear should cover?	<input type="checkbox"/>	<input type="checkbox"/>
11. Can you explain what load radius means?	<input type="checkbox"/>	<input type="checkbox"/>
12. Are you able to explain what happens if the crane rope isn't vertical before lifting the load?	<input type="checkbox"/>	<input type="checkbox"/>
13. Do you know what precautions to take with loads having a large surface area?	<input type="checkbox"/>	<input type="checkbox"/>
14. Have you used radios to communicate with the crane driver?	<input type="checkbox"/>	<input type="checkbox"/>
15. Can you explain what happens to the crane's lifting capacity when the radius between the crane and load is increased?	<input type="checkbox"/>	<input type="checkbox"/>
16. Can you explain what happens if the angles of a chain sling increase beyond 90°?	<input type="checkbox"/>	<input type="checkbox"/>
17. Do you know what course of action that must be taken if lifting gear is found to be defective	<input type="checkbox"/>	<input type="checkbox"/>
18. To ensure even loading of a multiple leg sling, can you explain how the legs may be connected to the hook block	<input type="checkbox"/>	<input type="checkbox"/>

Yes total _____

Candidate Name: Date:

Construction Skills Certification Scheme

Skills Self-Analysis CSCS Slinger Signaller - Part 1

Assessment Grading

If you have scored 12 – 18

You appear to have a good understanding of Slings and Signalling operations to comfortably participate on the trained operator course programme.

If you have scored 8 – 11

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

Less than 8

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

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**
- **Safe Pass card**
- **Safety helmet**
- **Safety boots**
- **Reflective 'hi-viz' jacket**
- **Gloves**

Further information and clarification may be obtained from the CSCS Unit Office or phone 01 5332500

Construction Skills Certification Scheme

Application Details CSCS Slinger Signaller - Part 2

Section A Applicant Details

Surname Forenames.....
Address
.....
..... Date of Birth:
Tel: PPS Number
Safe Pass Expiry Date:

Candidate Profile

Candidates for this programme must:

- Have at least six months full time experience operating as a trainee Slinger Signaller in construction in accordance with the 5th Schedule – of the Safety, Health and Welfare at Work (Construction) Regulations 2013 – S.I. No. 291 of 2013. The six months experience must be within the last two years.
- Possess a valid ‘Safe Pass’ registration card
- Be at least 18 years of age

Section B Applicant Declaration

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

- I have at least six months full time experience operating as a trainee Slinger Signaller in construction within the last two years
- I am in possession of a valid ‘Safe Pass’ registration card
- I am at least 18 years of age

Please sign

Date:

Construction Skills Certification Scheme

Application Details - CSCS Slinger Signaller - Part 2

Section C Applicant Experience

Please briefly list work carried out as a Slinger Signaller for at least six months, including dates and location of work.

Dates from/to	Crane Type	Location and brief details of work done
<i>Example</i> 9 Jan 14- 22 May 2015	Potain tower crane	<i>Barron Construction, Kilty Street, Dublin. Attaching and guiding steel beams for warehouse build</i>
		<p>(continue on a separate sheet if needed)</p>

Endorsement of Slinging & Signalling Competence - Part 3

Construction Skills Certification Scheme

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. Identify, check, select and attach suitable and serviceable lifting gear for different types of loads	
2. Recognise and use approved hand signals and two way radio communication	
3. Estimate / establish the weight of loads for lifting	
4. Protect loads, lifting gear and lifting points from damage	
5. Attach and detach lifting gear to and from the load and crane hook	
6. Direct, control and guide a variety of loads (including off-set loads) to the required location	
7. Attach and use tag lines to control the movement of loads	
8. Follow given instructions and manufacturers requirements when working with	

Endorsers Details

Full Name:

Company name and address:

.....

Position: Contact Tel no:

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

Declaration
 We/I the employer confirm that:

- the applicant has as least six months full time experience operating as a trainee Slinger Signaller in construction within the last two years
- the applicant is in possession of a valid 'Safe Pass' registration card
- the information detailed in this application, and any submitted information is valid, genuine and correct.

Signature _____ Date: _____

Slinging & Signalling Practical Test Specifications - Part 4

Construction Skills Certification Scheme

Equipment and Resources

A crane that meets current legislation with certificates which must be either:

- Mobile crane having a jib length of not less than 18 metres.
- Crawler crane having a jib length of not less than 18 metres.
- Tower crane with a tower height of not less than 20 metres.

The crane operator must be a competent operator and be in possession of the relevant CSCS registration card.

2. Loads to consist of:

- 1 x load having an offset centre of gravity not less than 20% of the load centre line. **Load 1**
- 1 x load consisting of bundled rounded section articles, being not less than 6 metres in length. **Load 2**
- 1 x cubed load being a minimum of 2 metres x 2 metres x 2 metres having 4 lift points. **Load 3**
- 1 x load having a weight not less than 5 tonnes. **Load 4**

3. Certified Lifting equipment and accessories with certificates, for the loads as in item 2 including:

- chain-slings 2 and 4 leg with shortening clutches.
- webbing slings/polyester.
- appropriate intermediate connections.
- appropriate tag lines.

4. Defective lifting accessories which are not suitable for lifting

5. Level area of ground which must:

- be capable of supporting the crane and loads.
- have obstructions to facilitate blind lifts.
- have sufficient area to cover the exercises as outlined in the exercise specification.

6. 2 x hand held radios.

7. Vehicle bed or trailer which may be simulated but having the same dimensions.

Tasks

The Candidate needs to:

1. Carry out checks to the operating area, identify hazards and inform the assessor and crane operator of any actions to be taken.

Construction Skills Certification Scheme

2. Check and select appropriate lifting accessories which are suitable for each lift
3. Prepare **Load 1** for lift. The load is to be located at a distance of not less than 8 metres radius from the crane.
4. Lift **Load 1** to a given point. This point is to be no more than 6 metres radius and at 210 degrees from the original start point. Once landed detach the load.
5. Prepare **Load 2** for lift. The load is to be located at a distance of not less than 8 metres radius. This load is to be fitted with a tag line.
6. Lift **Load 2** to a given point. This point is to be not less than 12 metres radius and not less than 280 degrees from the original start point. This load is to be controlled by the tag line. Once landed detach the load.
7. Prepare **Load 3** for lift. The load is to be located on the vehicle bed (simulating the arrival of a load on site)
8. Lift **Load 3** to a given point. This point is to be out of sight of the visible sight of the crane operator and at a distance of not less than 12 metres radius. Once landed detach the load.
9. Prepare **Load 4** for lift. This load is to be located at minimum radius.
10. Lift **Load 4** to a given point. This point is to be at 110 degrees from the start point. Once landed detach the load.
11. Detach the load and return all lifting equipment back to the original location.

Time

All tasks must be completed within one hour

Example of Practical Assessment Marking Sheet

1.	Check all lifting gear for serviceability
2.	Check the certification of all the lifting gear
3.	Check all landing areas prior to lifting
4.	Identify all weights and establish centres of gravity correctly
5.	Select the correct lifting equipment for each load
6.	Ensure load security & stability
7.	Use effective hand signals that conform to the agreed code
8.	Give clear and concise verbal instructions to the crane operator
9.	Conform with legislation and manufacturers instructions
10.	Complete the test in the given time