



***Certification Scheme – Basic Rigger /
Advanced Rigger & Rigging Supervisor
Document Reference: IVS/PCS/CSRG, Rev 3
Bureau Veritas International Doha – IVS Department
- ISO/IEC 17024
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Move Forward with Confidence



1.0 Purpose

Purpose of the scheme is to document competence and other requirements related to rigging activities.

2.0 Scope

This Scheme covers the following.

- a) Scope of Certification
- b) Job and Task Description
- c) Required competence
- d) Abilities (when applicable).
- e) Pre-requisites (when applicable).
- f) Code of conduct (when applicable).
- g) Criteria for initial and re-certification.
- h) Assessment methods for initial and re-certification.
- i) Surveillance methods and criteria (if applicable).
- j) Criteria for suspending and withdrawing certification.
- k) Criteria for changing the scope or level of certification (if applicable).

3.0 Responsibility

3.1 **Technical Manager** is responsible for development, review and implementation of Certification scheme.

4.0 Scope of Certification

- A. Certified Basic Rigger for Onshore Lifting activities.
- B. Certified Advanced Rigger for Onshore Lifting activities.
- C. Certified Rigging Supervisor for Onshore Lifting activities.

5.0 Job and Task Description for Certified Basic Rigger

Certified Basic Rigger would be able to successfully perform the following tasks.

- a) Perform the assessment of the area where the crane is to be positioned under the direction of the Rigging Supervisor which includes ensuring the lifting route is free from any obstacles, live electrical cable, sudden & hidden threat from other activities around, weather / wind speed and visibility.
- b) Barricade lifting and landing area.
- c) Measure the load handling parameters (position and height of load from the ground, Operating radius, Boom length) under the direction of Rigging Supervisor.
- d) Perform weight calculation of the load (when it is unknown).
- e) Prepare the Lifting gears for the testing.
- f) Selection of suitable lifting gears and crane for the Lifting task.
- g) Review the certification validity of the selected Lifting equipment.

- h) Perform pre-use inspection of Lifting gears.
- i) Rig the Lifting gears to the load and to the crane.
- j) Perform hand signalling / radio signalling to the crane operator for the Lifting operation under the direction of Rigging Supervisor.
- k) Controlling the load using tag lines.
- l) Reporting incidents to the Job Supervisor.
- m) Carryout Housekeeping at work-site.

6.0 Required Competence for Certified Basic Rigger

- a) Knowledge on applicable regulations.
- b) Knowledge on site safety requirements to execute safe Rigging operation.
- c) Knowledge on basic instruments used for measurement.
- d) Competent to perform basic mathematical calculations. Example: Weight calculation – Calculating volume of standard shapes, calculating volume of complex shaped loads, Density / Approximate weight of common materials.
- e) Understanding of Colour-coding system of lifting gears.
- f) Knowledge of Lifting gears (Wire rope slings, Chain slings, Webbing sling, Round slings, Shackles, Eye bolts, plate clamps, Chain blocks, Lever hoists, Jaw winches etc.) construction, classification, Safe Working load and Coefficient of utilization or Safety factor and working temperature range, special features such as length adjustments where applicable.
- g) Knowledge of Upper Working Temperature, special care for storage- away from chemicals, ultra-violet rays of sun-light & Arc-welding-booths, etc., for the soft slings (Webbing sling, round sling etc.)
- h) Knowledge of defects and rejection criteria of the Lifting gears.
- i) Knowledge of application and safe use of Safety Harnesses, tag lines etc.,
- j) Knowledge of selection criteria for the suitable lifting gears.
- k) Knowledge of hand signals and radio communication used in lifting operation.
- l) Knowledge of different hitches and their corresponding effect on mode factors with respect to single and multi-leg slings.
- m) Knowledge of different angles (0, 30, 45, 60 degrees) which influences the capacity of Lifting gears.
- n) Knowledge of Safe working load chart for different type of single and multi-leg slings.
- o) Knowledge of calculation for the length required for the specific mode of lifting.
- p) Knowledge of working Principle, use, maintenance, pre-use inspection of Chain blocks, Lever Hoist, Jaw winches and Pulley blocks.
- q) Knowledge of crane terminology, Load charts, Operating radius, Boom length, Line pull, counter weights, outriggers and Boom etc.

7.0 Abilities of Certified Basic Rigger

- a) Working at height.

8.0 . Pre-requisites for Certified Basic Rigger

- a) Rigger shall be of minimum 21 years of age.
- b) Shall be experienced in Rigging for a minimum of 3 years.
- c) Shall be capable of reading and understanding of English language sufficient for the fulfilment of their function in a safe manner.
- d) Rigger shall be certified physically and medically fit, including eye sight, colour blindness, hearing and reflexes by a Qatar registered medical practitioner.
- e) Shall hold a valid 3 days training certificate along with Photo identification card issued by QP Accepted LE Personnel Training and Certification Providers (QLTP's). The validity of QLTP issued certificate shall not exceed 3 years.

9.0 Code of Conduct for Certified Basic Rigger

- a) Shall adhere to safe working practices and follow site safety requirements.
- b) Responsible attitude.

10.0 Criteria for initial and re-Certification for Certified Basic Rigger

- a) The applicants must complete application form and shall submit the same along with supporting documents to Bureau Veritas International Doha L.L.C.
- b) The submittals shall undergo a document review process (Stage 1) performed by Bureau Veritas International Doha L.L.C to ensure fulfilment of scheme pre-requisites.
- c) Upon successful outcome of the application process, the successful candidates need to undergo further assessments (Stage 2 &3) for the initial certification.
- d) For the recertification, Bureau Veritas International Doha L.L.C will verify authenticity and validity of the initial certification (Stage 1) in addition to process stipulated under a), b) & c) above.

11.0 Assessment Methods for Initial and re-certification for Certified Basic Rigger

Initial and re-certification

- a) The Initial and re-certification comprises of 3 stage assessment that include application review, written examination and practical assessment. The candidates must pass all assessments to be certified as Basic Rigger. This is applicable for the candidates / applicants who approach BVIL with the work performed by other CB for completing the certification as well

Stage 1 – Application review

Note: For the re-certification, the applicant shall submit the existing certificate for the verification of validity and authenticity. Submission of application is not required.

Stage 2 - Written Examination

- a) Written examination has a mix of True or false, multiple choice and descriptive questions
- b) Shall be written with indelible Ink Pen.
- c) It is a closed book exam.
- d) Passing percentage 60%. (1 retake is permitted within 1 month from the date of exam)
- e) Duration of written examination will be maximum 1 Hour.

Stage 3 - Practical Assessment

Practical assessment will involve the following;

- a) Practical demonstration of fulfilling competence requirements as defined under section 6.0 - Required competence of the Certification Scheme.
- b) Practical demonstration will be conducted on client site.
- c) Passing percentage 70%.
- d) Duration of practical assessment will be maximum 2 Hours.

Validity of the Certificates

- a) Validity of the certificates for the initial and re-certification will be Three (3) Years.

12.0 Surveillance methods and criteria for Certified Basic Rigger

- a) The Certified Basic Rigger shall maintain a log for his day to day Rigging related activities. To remain certified, Rigger must have successfully completed at least one rigging activity per month and the same shall be submitted to Bureau Veritas International Doha L.L.C office every 12 months from the date of certification for review and records.

13.0 Criteria for suspending and withdrawing certification for Certified Basic Rigger

Bureau Veritas International Doha L.L.C shall suspend the certification of certified Basic Rigger in following circumstances.

- a) Failure to provide the log of Minimum number of rigging activities performed by the certified Basic Rigger per year.
- b) Any serious and valid complaints that can lead to safety incidents received from the clients or Employer of certified Basic Rigger.
- c) Misuse of Bureau Veritas International Doha L.L.C logo.

Bureau Veritas International Doha L.L.C shall withdraw the certification of certified Basic Rigger in following circumstances

- a) Any serious and valid complaints that can lead to safety accidents received from the clients or Employer of certified Basic Rigger.
- b) Failure to take timely corrective action on reported safety incidents that led to suspension of Certification.
- c) Any misrepresentation or falsification of documents submitted to Bureau Veritas International Doha L.L.C with the intention to obtain certification / ongoing maintenance / re-certification.
- d) Failure to maintain compliance with pre- requisites.

14.0 Job and Task Description for Certified Advanced Rigger

In addition to the Job and task description for Certified Basic Rigger, Certified Advanced Rigger would be able to successfully perform the following tasks.

- a) Perform Mathematical calculations for the weight, Center of gravity

15.0 Required Competence for Certified Advanced Rigger

In addition to the required competence for Certified Basic Rigger, Certified Advanced Rigger shall be able to demonstrate competence for the following.

- a) Competent to perform complicated mathematical calculations. Example: calculation of angle effect which affects the rated capacity.
- b) Calculation of Centre of Gravity of standard shaped loads, Off-balance Load, knowledge of Importance of trial lift & balancing of load.

16.0 Abilities of Certified Advanced Rigger

- a) Working at height.

17.0 Pre-requisites for Certified Advanced Rigger

In addition to the required Pre-requisites for Certified Basic Rigger, Certified Advanced Rigger should be able to fulfil the following.

- b) Shall have worked as Basic Certified Rigger for at least one year.
- c) Shall be educated to a minimum secondary level.

18.0 Code of Conduct for Certified Advanced Rigger

- a) Shall adhere to safe working practices and follow site safety requirements.
- b) Responsible attitude.

19.0 Criteria for initial and re-Certification for Certified Advanced Rigger

- a) The applicants must complete application form and shall submit the same along with supporting documents to Bureau Veritas International Doha L.L.C.
- b) The submittals shall undergo a document review process (Stage 1) performed by Bureau Veritas International Doha L.L.C to ensure fulfilment of scheme pre-requisites.
- c) Upon successful outcome of the application process, the successful candidates need to undergo further assessments (Stage 2, 3 &4) for the initial certification.
- d) For the recertification, Bureau Veritas International Doha L.L.C will verify authenticity and validity of the initial certification in addition to the process stipulated under a), b) & c) above.

20.0 Assessment Methods for Initial and re-certification for Certified Advanced Rigger

Initial and re-certification

- a) The Initial and re-certification comprises of 4 stage assessment that include application review, face to face interview, written examination and practical assessment. The candidates must pass all assessments to be certified as Advanced Rigger. This is applicable for the candidates / applicants who approach BVIL with the work performed by other CB for completing the certification as well

Stage 1 – Application review

Note: For the re-certification, the applicant shall submit the existing certificate for the verification of validity and authenticity. Submission of application is not required

Stage 2 – Face to Face Interview

- a) The candidate must be able to demonstrate the experience, expertise and theoretical knowledge as Basic Rigger.
- b) The candidate must be able to demonstrate the understanding of handling complex loads at the site.
- c) Passing percentage 60%.

- d) Duration of face to face interview will be maximum 30 minutes.

Stage 3 - Written Examination

- a) Written examination has a mix of True or false, multiple choice and descriptive questions
- b) Shall be written with indelible Ink Pen.
- c) It is a closed book exam.
- d) Passing percentage 60%. (1 retake is permitted within 1 month from the date of exam)
- e) Duration of written examination will be maximum 1 Hour and 30 Minutes.

Stage 4 - Practical Assessment

Practical assessment will involve the following;

- a) Practical demonstration of fulfilling competence requirements as defined under section 15.0 - Required competence of the Certification Scheme.
- b) Practical demonstration will be conducted on client site.
- c) Passing percentage 70%.
- d) Duration of practical assessment will be maximum 3 Hours.

Validity of the Certificates

- a) Validity of the certificates for the initial and re-certification will be Three (3) Years.

21.0 Surveillance methods and criteria for Certified Advanced Rigger

- a) The Certified Advanced Rigger shall maintain a log for his day to day Rigging related activities. To remain certified, Advanced Rigger must have successfully completed at least five rigging activities per month and the same shall be submitted to Bureau Veritas International Doha L.L.C office every 12 months from the date of certification for review and records.

22.0 Criteria for suspending and withdrawing certification for Certified Advanced Rigger

Bureau Veritas International Doha L.L.C shall suspend the certification of certified advanced Rigger in following circumstances;

- a) Failure to provide the log of Minimum number of rigging activities performed by the certified advanced Rigger per year.
- b) Any serious and valid complaints that can lead to safety incidents received from the clients or Employer of certified advanced Rigger.
- c) Misuse of Bureau Veritas International Doha L.L.C logo.
Bureau Veritas International Doha L.L.C shall withdraw the certification of certified advanced Rigger in following circumstances;
- d) Any serious and valid complaints that can lead to safety accidents received from the clients or Employer of certified advanced Rigger.
- e) Failure to take timely corrective action on reported safety incidents that led to suspension of Certification.

- f) Any misrepresentation or falsification of documents submitted to Bureau Veritas International Doha L.L.C with the intention to obtain certification / ongoing maintenance / re-certification.
- g) Failure to maintain compliance with pre- requisites.

23.0 Job and Task Description for Certified Rigging Supervisor

In addition to the Job and task description for Certified Advanced Rigger, Certified Rigging Supervisor would be able to successfully perform the following tasks.

- a) Administer and supervise to schedule, monitor and control lifting personnel and Lifting operations.
- b) Ensure work authorizations are available for carrying out Lifting operations.
- c) Conducting tool box talk.
- d) Participating in Risk assessment.
- e) Classification of the Lifting plan.
- f) Preparation of Critical, Routine & Non-routine lifting plans.
- g) Load sharing calculation of the cranes during tandem lifting.
- h) Initiate timely action to avoid incidents / accidents.

24.0 Required Competence for Certified Rigging Supervisor

In addition to the required competence for certified advanced Rigger, Certified Rigging Supervisor should be able to demonstrate competence for the following.

- a) Knowledge of tool box talk, risk assessment methodology, root cause analysis, correction and corrective actions.
- b) Competent to lead and supervise.
- c) Competent to classify and prepare lifting plans.
- d) Knowledge of mathematical computations to perform Load sharing calculation of the cranes during tandem lifting.

25.0 Abilities of Certified Rigging Supervisor

- a) Working at height.

26.0 Pre-requisites for Certified Rigging Supervisor

- a) Rigging Supervisor shall be at least 30 years of age.
- b) Shall be educated to minimum higher secondary level.
- c) Shall have a minimum of eight (8) years rigging experience in Lifting activities with at least 3 years supervisory experience.
- d) Shall be capable of reading, speaking, writing and understanding of English language sufficient for the fulfilment of their function in a safe manner.
- e) Rigging Supervisor shall be certified physically and medically fit, including eye sight, colour blindness, hearing and reflexes by a Qatar registered medical practitioner.
- f) Shall hold a valid 5 days training certificate (for initial certification) and 3 days training certificate (for re-certification) along with Photo identification card issued by QP Accepted LE Personnel Training and Certification Providers (QLTP's). The validity of QLTP issued certificate shall not exceed 3 years.

27.0 Code of Conduct for Certified Rigging Supervisor

- a) Shall adhere to safe working practices and follow site safety requirements.
- b) Responsible attitude

28.0 Criteria for initial and re-Certification for Certified Rigging Supervisor

- a) The applicants must complete application form and shall submit the same along with supporting documents to Bureau Veritas International Doha L.L.C.
- b) The submittals shall undergo a document review process (Stage 1) performed by Bureau Veritas International Doha L.L.C to ensure fulfilment of scheme pre-requisites.
- c) Upon successful outcome of the application process, the successful candidates need to undergo further assessments (Stage 2, 3 &4) for the initial certification.
- d) For the recertification, Bureau Veritas International Doha L.L.C will verify authenticity and validity of the initial certification in addition to the process stipulated under a), b) & c) above.

29.0 Assessment Methods for Initial and re-certification for Certified Rigging Supervisor

Initial and re-certification

The Initial and re-certification comprises of 4 stage assessment that include application review, face to face interview, written examination and practical assessment. The candidates must pass all assessments to be certified as Rigging Supervisor. This is applicable for the candidates / applicants who approach BVIL with the work performed by other CB for completing the certification as well.

Stage 1 – Application review

Note: For the re-certification, the applicant shall submit the existing certificate for the verification of validity and authenticity. Submission of application is not required

Stage 2 – Face to Face Interview

- a) The candidate must be able to demonstrate the experience, expertise and theoretical knowledge as Rigging Supervisor.
- b) The candidate must be able to demonstrate the understanding for classification and preparation of Lifting plans, load sharing calculations, risk assessment, roles and responsibilities of the Rigging Supervisor and team management skills.
- c) Passing percentage 60%.
- d) Duration of face to face interview will be maximum 1 Hour.

Stage 3 - Written Examination

- a) Written examination has a mix of True or false, multiple choice and descriptive questions
- b) Shall be written with indelible Ink Pen.
- c) It is a closed book exam.
- d) Passing percentage 60%. (1 retake is permitted within 1 month from the date of exam)
- e) Duration of written examination will be maximum 2 Hours.

Stage 4 - Practical Assessment

Practical assessment will involve the following;

- a) Practical demonstration of fulfilling competence requirements as defined under section 24.0 - Required competence of the Certification Scheme.
- b) Practical demonstration will be conducted on client site.
- c) Passing percentage 70%.
- d) Duration of practical assessment will be maximum 3 Hours.

Validity of the Certificates

Validity of the certificates for the initial and re-certification will be Three (3) Years.

30.0 Surveillance methods and criteria for Certified Rigging Supervisor

- a) The Certified Rigging Supervisor shall maintain a log for his day to day Rigging Supervisory related activities. To remain certified, Rigging Supervisor must have supervised at least five rigging activities per month and the log of same shall be submitted to Bureau Veritas International Doha L.L.C office every 12 months from the date of certification for review and records.

31.0 Criteria for suspending and withdrawing certification for Certified Rigging Supervisor

Bureau Veritas International Doha L.L.C shall suspend the certification of certified Rigging Supervisor in following circumstances;

- a) Failure to provide the log of Minimum number of rigging supervision activities performed by the certified Rigging Supervisor per year.
- b) Any serious and valid complaints that can lead to safety incidents received from the clients or Employer of certified Rigging Supervisor.
- c) Misuse of Bureau Veritas International Doha L.L.C logo.

Bureau Veritas International Doha L.L.C shall withdraw the certification of certified Rigging Supervisor in following circumstances;

- a) Any serious and valid complaints that can lead to safety accidents received from the clients or Employer of certified Rigging Supervisor.
- b) Failure to take timely corrective action on reported safety incidents that led to suspension of Certification.
- c) Any misrepresentation or falsification of documents submitted to Bureau Veritas International Doha L.L.C with the intention to obtain certification / ongoing maintenance / re-certification.
- d) Failure to maintain compliance with pre- requisites.

32.0 Criteria for changing the scope or level of certification

Change in scope or level of certification may happen under following circumstances.

Rigging Supervisor to Advanced Rigger.

- a) If the Certified Rigging Supervisor fails to demonstrate the competency of Rigging Supervisor, the level will be downgraded to Advanced Rigger.

33.0 References

QP-REG-Q-001 Rev 5

Document validation and history

Validation

	Prepared	Reviewed	Approved
Name	Anil V John	Abraham Vedhamuthu	Hossam Refaey
Function	IVS Technical Manager	IVS BL Manager	Country Chief Executive
Date	July 01, 2020	July 01, 2020	July 01, 2020
Signature			

History

Revision	Date	Pages changed	Comments	Proposal	Verification	Approval
3	July 01, 2020	Page 3, Para 11, Page 5, para 20 & Page 8, para 29	Clarified the criteria when the applicant approaches with the work performed by other CB	IVS Technical Manager	IVS BL Manager	Country Chief Executive
2	December 01, 2018	Page 1, para 4.0, scope of certification – Added “Onshore Locations only)	Revised for making the scope of certification clear for all	IVS Technical Manager	IVS BL Manager	Country Chief Executive
1	October 03, 2018	Page 3, Para 11.0, Stage 2, Page 5, Para 20, Stage 3, Page 8, Para 29.0, Stage 3	Included True or false, Describing type questions in addition to the multiple choice questions	IVS Technical Manager	IVS BL Manager	Country Chief Executive
0	July 05, 2018	Not Applicable	Initial preparation	IVS Technical Manager	IVS BL Manager	Country Chief Executive