

**COURSE OVERVIEW HE0637**  
**Certification in 220 Ton Grove Crane**

**Course Title**

Certification in 220 Ton Grove Crane

**Course Date/Venue**

September 08-12, 2024/Club B Meeting Room,  
 Ramada Plaza by Wyndham Istanbul City Center,  
 Istanbul, Turkey

**Course Reference**

HE0637



**Course Duration/Credits**

Five days/3.0 CEUs/30 PDHs

**Course Description**



***This practical and highly-interactive course includes practical sessions where participants will visit the facility. Practical sessions will be performed using various equipment in order to apply the theory learnt in the class.***



This course is designed to provide participants with a detailed and up-to-date overview of the basic principles revision of crane including wire rope, hardware, sheaves, stabilization, charts and fly jibs attachments. It covers the various types and components of cranes; the overhead cranes, straddle cranes, telescopic handler cranes, mobile cranes, lorry mounted cranes and crawler cranes; setting-up crane on sites; and the crane strength, crane stability, general lifting procedures, crane nomenclature and crane operator attributes.



Further, the course will also discuss the sling loads and angles, load weight calculation, load center of gravity estimation, wire rope slings and basic sling operating good practices; the sling inspection, pictorial presentation, chain inspection, replacement criteria and chain and slings identification; the synthetic slings inspection and rigging gear inspection and replacement criteria; and the shackles, dee, bow type, eye bolts, proper attachment, rings and links.

During this interactive course, participants will learn the systematic inspection and nameplate of spreader bars and man baskets; the proper application of wedge sockets; the swivel hoist, turnbuckles, snatch blocks, come-a-long and chain fall; the lifting gear color coding and proper storage techniques; the hand signals and mobile crane inspection; the crane log book, crane operation and crane safety features; the safety and lifting, health and safety legislation, inspection definitions, risk assessment methodology, fatality reports and the causes accidents; the personal lifting techniques and personal safety equipment; the crane stability, outriggers position, load charts and conditions affecting crane capacity; the site preparation, lifting plan requirements, critical lift, critical lift plan analysis, calculation of soil bearing capacity and crane weight; the load calculation, lifting gear selection procedure and load charts interpretation; the load radius, boom length, boom angle, crane capacity definition and conditions affecting crane capacity; the complete lifting plan; and the crane inspection checklist, daily inspection check list, pick and carry inspection checklist and crane suspended basket check list.

### **Course Objectives**

Upon the successful completion of this course, each participant will be able to:-

- Apply and gain a comprehensive knowledge on 220 ton grove crane
- Discuss the basic principles revision of crane including wire rope, hardware, sheaves, stabilization, charts and fly jibs attachments
- Recognize crane tabulated data on grove 220 ton
- Identify the load moment indicator settings
- Illustrate how to operate properly a 220 ton grove crane

### **Who Should Attend**

This course provides an overview of all significant aspects and considerations of 220 ton grove crane for all crane operators.

### **Training Methodology**

All our Courses are including **Hands-on Practical Sessions** using equipment, State-of-the-Art Simulators, Drawings, Case Studies, Videos and Exercises. The courses include the following training methodologies as a percentage of the total tuition hours:-

- 30% Lectures
- 20% Practical Workshops & Work Presentations
- 30% Hands-on Practical Exercises & Case Studies
- 20% Simulators (Hardware & Software) & Videos

In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

### **Accommodation**

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking

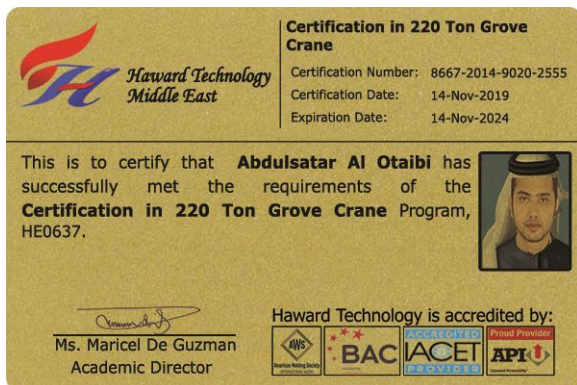
**Course Certificate(s)**

- (1) Internationally recognized Competency Certificates and Plastic Wallet Cards will be issued to participants who completed a minimum of 80% of the total tuition hours and successfully passed the exam at the end of the course. Certificates are valid for 5 years.

**Recertification is FOC for a Lifetime.**

**Sample of Certificates**

The following are samples of the certificates that will be awarded to course participants:-



(2) Official Transcript of Records will be provided to the successful delegates with the equivalent number of ANSI/IACET accredited Continuing Education Units (CEUs) earned during the course

\* Haward Technology \* CEUs \* Haward Technology \* CEUs \* Haward Technology \* CEUs \* Haward Technology \*



**Haward Technology Middle East**

Continuing Professional Development (HTME-CPD)

**CEUs**

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### CEU Official Transcript of Records

**TOR Issuance Date:** 14-Nov-19

**HTME No.** 8667-2014-9020-2555

**Participant Name:** Abdulsatar Al Otaibi

Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU's
HE0637	Certification in 220 Ton Grove Crane	November 10-14, 2019	30	3.0

**Total No. of CEU's Earned as of TOR Issuance Date** **3.0**

**TRUE COPY**



Maricel De Guzman  
Academic Director

Haward Technology has been approved as an Authorized Provider by the International Association for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this approval, Haward Technology has demonstrated that it complies with the ANSI/IACET 1-2013 Standard which is widely recognized as the standard of good practice internationally. As a result of their Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for programs that qualify under the ANSI/IACET 1-2013 Standard.

Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking Continuing Education Units (CEUs) in accordance with the rules & regulations of the International Association for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

Haward Technology is accredited by











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\* Haward Technology \* CEUs \* Haward Technology \* CEUs \* Haward Technology \* CEUs \* Haward Technology \*

### Certificate Accreditations


Certificates are accredited by the following international accreditation organizations: -

- 
The International Accreditors for Continuing Education and Training (IACET - USA)

Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 2018-1 Standard** which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the **ANSI/IACET 2018-1 Standard**.

Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking **Continuing Education Units (CEUs)** in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

Haward Technology Middle East will award **3.0 CEUs** (Continuing Education Units) or **30 PDHs** (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant's involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant's CEU and PDH Transcript of Records upon request.

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British Accreditation Council (BAC)

Haward Technology is accredited by the **British Accreditation Council** for **Independent Further and Higher Education** as an **International Centre**. BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.

### Course Fee

**US\$ 6,000** per Delegate + **VAT**. This rate includes Participants Pack (Folder, Manual, Hand-outs, etc.), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

**Course Instructor(s)**

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:



**Mr. Russell Mason** is an **International Expert** in **Lifting & Rigging Operations** with over **20 years** of experience in **Crane, Rigging, Slinging, Lifting and Deck Operations, Construction Operations, Scaffolding, Forklift, Safety Audits, Compliance with OSHA Safety Requirements** and other heavy equipment operations. His experience includes **HLO** and **Welding** operations. He is currently an **Independent Consultant** providing consultancy services on **Lifting, Rigging, and Crane Operations** to various companies all over **Australia, Europe and Asia**.

During his career life, Mr. Mason worked as a **Senior Construction Manager, Construction Manager, Construction Supervisor, Lifting & Rigging Superintendent, Lifting & Rigging Supervisor, Deck Operations Supervisor, Crane Operator** and **Rigging Specialist**. He worked in various companies such as **AUST Corporation, Rydans Construction, All Area Rigging Company, Le Blanc Communications, Fluor Daniel, James Hardie Construction, NQEA, Citra Construction, Humes Construction** and **Queensland Public Works & Highways**.

Mr. Mason has a **Bachelor** degree in **Engineering & Industrial Skills**. Further, he is a **Certified Instructor/Trainer** and has obtained international **certifications** for **Advanced Rigging, Advanced Scaffolding, Mobile Crane (PIN-JIB, Hydraulic, no tonnage restriction), Dogman, Forklift, O/H Gantry, Front End Loader** and other heavy equipment.

**Course Program**

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the course for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

**Day 1**

0730 - 0800	Registration & Coffee
0800 - 0815	Welcome & Introduction
0815 - 0830	<b>PRE-TEST</b>
0830 - 0930	<b>Crane Basic Principles Revision</b> Wire Rope
0930 - 0945	Break
0945 - 1100	<b>Crane Basic Principles Revision (cont'd)</b> Hardware
1100 - 1230	<b>Crane Basic Principles Revision (cont'd)</b> Sheaves
1230 - 1245	Break
1245 - 1420	<b>Crane Basic Principles Revision (cont'd)</b> Stabilization
1420 - 1430	<b>Recap</b>
1430	Lunch & End of Day One

### Day 2

0730 – 0930	<b>Crane Basic Principles Revision (cont'd)</b> Charts
0930 - 0945	Break
0945 – 1100	<b>Crane Basic Principles Revision (cont'd)</b> Charts (cont'd)
1100 – 1215	<b>Crane Basic Principles Revision (cont'd)</b> Fly Jibs Attachments
1215 – 1230	Break
1230 - 1420	<b>Crane Basic Principles Revision (cont'd)</b> Fly Jibs Attachments (cont'd)
1420 – 1430	<b>Recap</b>
1430	Lunch & End of Day Two

### Day 3

0730 – 0930	<b>Crane Tabulated Data on Grove 220t</b>
0930 - 0945	Break
0945 – 1100	<b>Crane Tabulated Data on Grove 220t (cont'd)</b>
1100 – 1215	<b>Crane Tabulated Data on Grove 220t (cont'd)</b>
1215 – 1230	Break
1230 - 1420	<b>Crane Tabulated Data on Grove 220t (cont'd)</b>
1420 – 1430	<b>Recap</b>
1430	Lunch & End of Day Three

### Day 4

0730 – 0930	<b>Load Moment Indicator Setting</b>
0930 - 0945	Break
0945 – 1100	<b>Load Moment Indicator Setting (cont'd)</b>
1100 – 1215	<b>Load Moment Indicator Setting (cont'd)</b>
1215 – 1230	Break
1230 - 1420	<b>Load Moment Indicator Setting (cont'd)</b>
1420 – 1430	<b>Recap</b>
1430	Lunch & End of Day Four

### Day 5

0730 – 0930	<b>Practical Sessions</b>
0930 - 0945	Break
0945 – 1100	<b>Practical Sessions (cont'd)</b>
1100 – 1215	<b>Practical Sessions (cont'd)</b>
1215 – 1230	Break
1230 - 1300	Course Summary & Wrap-up
1300 - 1315	<b>Course Conclusion</b>
1315 - 1415	<b>COMPETENCY EXAM</b>
1415 - 1430	Presentation of Course Certificates
1430	Lunch & End of Course

**Practical Sessions/Site Visit**

Site visit will be organized during the course for delegates to practice the theory learnt:-



**Course Coordinator**

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