

Electrical Industry Certifications Association (EICA)

WESTERN LAMPAC 2018 Spring Conference

**April 17, 2018 to April 19, 2018
Maui, Hawaii**

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ANSI Accreditation

- Electrical Industry Certifications Association (EICA) announces that it has received accreditation for three operator certification programs from the American National Standards Institute (ANSI) under its personnel certification accreditation program. EICA's accredited schemes include the following: Digger Derrick, Rotating Control Telescoping Crane, and Stationary Control Telescoping Crane. ANSI's Personnel Certification Accreditation Committee awarded EICA accreditation September 22, 2017.

ANSI Accreditation



ISO/IEC 17024
Personnel Certification Program
#1211

Digger Derrick Certification
Stationary Control Hydraulic Boom Crane Certification
Rotating Control Hydraulic Boom Crane Certification

of CERTIFICATE of ACCREDITATION

PERSONNEL CERTIFICATION

The American National Standards Institute hereby affirms that
Electrical Industry Certification Association

1275 E. Fort Union Blvd. Suite 203 , Midvale, UT 84047, United States

ACCREDITATION ID# 1211

meets the ANSI accreditation program requirements and those set forth in

ISO/IEC 17024:2012: Conformity assessment- General requirements for bodies operating certification of persons

for programs within the following

SCOPE OF ACCREDITATION

GRANTED 2017-09-22: Digger Derrick (DD)

GRANTED 2017-09-22: Rotating-Control (RC)

GRANTED 2017-09-22: Stationary-Control (SC)



Lance Hordtbeck

ANSI VICE PRESIDENT, ACCREDITATION SERVICES

2022-09-22
VALID THROUGH

Why EICA Certification

- Structured around High Voltage Electrical industry
- Can change practical exam based on practical examiner, committee, and Board feedback
- Certifications for cranes based on control type
- Written tests question electrically qualified workers
- All three written exams test on the prohibited zone of operation

Why EICA Certification

- EICA's practical exam is easily moved from one location to another.
- EICA has multiple practical exam specifications for a wide array of cranes and digger derricks.
- EICA requires the candidates to setup and level the machine to OSHA and manufacturer specifications.

Stationary Control Crane



Scope of Certification: Stationary Control Cranes

- EICA has two separate types (schemes) of "Crane" certification: Rotating Control and Stationary Control. The crane certification types are not limited by capacity. In addition, the certification process is intended to address the use of cranes in proximity to electrical power lines. ■
- Stationary Control cranes have a telescoping main boom that travels using tracks or wheels. ■
- Stationary Control (SC): the hoisting, boom, hoist, telescope, and other basic control functions are fixed at one or more positions, attached to the frame and DO NOT rotate with the boom sections. The operator generally stands at the controls while operating the crane. Stationary Control cranes have capacities that typically range from 3 - 35 tons. ■
 - Boom trucks (commercial truck-mounted) ■ Stationary ■
 - Wheel mounted cranes ■ Single Control Station ■ Stationary ■
 - a) Small capacity rough terrain (RT) ■
 - b) Carry decks ■
 - c) Downfalls ■
- Operators that have obtained an EICA Stationary Control Crane Certification, and are electrically qualified, have sufficient knowledge, skills, and abilities to operating a crane around the minimum approach distance in proximity of high voltage power lines. The EICA Stationary Control Crane certification demonstrates that the operator understands OSHA's rules regarding cranes in construction and maintenance of transmission and distribution lines. Operators that obtain an EICA Stationary Control Crane Certification understand the machine's load chart capacity ratings and how to calculate loads. Candidates that have successfully completed the EICA Stationary Control Crane Certification program will be able to demonstrate safe work operations and compliance with industry standards. EICA certified personnel are knowledgeable in site setup, inspections, operations, use of attachments, and machine securement. ■
- The certification requirements for Stationary Control type follow: ■
 - The Stationary Control Crane certification requires passing the general written exam. ■
 - The Stationary Control Crane certification requires passing the crane specialty written exam. ■
 - The operational differences between rotating and stationary cranes demonstrate why control types is important. Therefore each crane type requires passing a separate practical exam. ■
 - The successful completion of the stationary control practical exam ■
 - Certification is awarded upon successful completion of the General Exam, Crane Specialty Exam and the practical exam for stationary control type.
- Crane certification equivalent to type (Stationary) can also be satisfied by using a stationary digger derrick since Tasks 1, 2, 3, 4, 6, and 8 are conducted in the same manner on both Cranes and Digger Derrick.



Rotating Control Crane



Scope of Certification: Rotating Control Cranes

EICA has two separate types (schemes) for "Crane" certification: Rotating Control and Stationary Control. The crane certification types are not limited by capacity. In addition, the certification process is intended to address the use of cranes in proximity to electrical power lines.

Rotating Control cranes have a telescoping main boom that travels using tracks and wheels.

Rotating Control (RC): The hoisting boom, hoist, telescope, and other basic control functions rotate along with the boom sections. The operator is housed in a cab or in a seat that also rotates with the boom. These cranes have capacities that typically range from 10-500 tons and more.

- Crawler cranes with or without jugs and pole guides.
- Wheel mounted cranes at single control stations rotating:
 - a) Rough Terrain (RT)
 - Wheel mounted cranes at multiple control stations rotating:
 - a) Truck cranes

Operators that have obtained an EICA Rotating Control Crane certification, and are electrically qualified, have sufficient knowledge, skills, and abilities to operating a crane around the minimum approach distance in proximity to high voltage power lines. The EICA Rotating Control Crane certification demonstrates that the operator understands OSHA's rules regarding cranes in construction and maintenance of transmission and distribution lines. Operators that obtain the EICA Rotating Control Certification understand the machine's load chart capacity ratings and how to calculate loads. Candidates that have successfully completed the EICA Rotating Control Crane certification program will be able to demonstrate safe work operations and compliance with industry standards. EICA certified personnel are knowledgeable in the setup, inspections, operation, use of attachments, and machine securement.

The certification requirements for the Rotational Control type follow:

- The Rotating Control Crane certification requires passing the General Written Exam.
- The Rotating Control Crane certification requires passing the Crane Specialty Written Exam.
- The operational differences between rotating and stationary cranes demonstrate why control type is important. Therefore each crane type requires passing a separate practical exam.
- The successful completion of the rotating practical exam.
- Certification is awarded upon successful completion of the General Exam, Crane Specialty Exam and the corresponding practical exam for each control type.
- Crane certification is equivalent to type Rotating. It can also be satisfied by using a Rotating Digger Derrick since tasks 12, 23, 34, 35, and 36 are conducted in the same manner on both cranes and digger derricks.



Digger Derrick



Scope of Certification: Digger/Derricks

EICA has one type (scheme) of "Digger/Derrick" certification. This certification type is not limited by capacity or control station type. In addition, the certification process is intended to incorporate the use of Digger/Derricks in proximity to electrical power lines.

Digger/Derricks (line trucks or backyard units) have a telescoping main boom, are equipped with an auger, pole guides, and travel using tracks or wheels.

Digger/Derrick Certification (DD) – The swing boom, hoist, telescope, auger, pole guides and the basic control functions may be rotated along with the boom sections. The operator may operate from a seat attached to the upper rotating structure above the pedestal that rotates with the boom or stand at a fixed control or swing control station that does not rotate with the boom. Diggers are generally controlled from separate frame-mounted controls. Digger/Derricks have capacities that range from nearly 2 to 50 tons. In many cases one of the boom extension sections will be a non-metallic and non-conducting stage that is used to isolate and insulate the Digger/Derrick in case of accidental conductor contact.

Operators that have obtained an EICA Digger/Derrick certification, and are electrically qualified, have sufficient knowledge, skills, and abilities to operating a Digger/Derrick around the minimum approach distance in proximity of high voltage power lines. The EICA Digger/Derrick certification demonstrates that the operator understands OSHA's rules regarding Digger/Derricks in construction and maintenance of transmission and distribution lines. Operators that obtain an EICA Digger/Derrick Certification understand the machine's load chart capacity ratings and how to calculate loads. Candidates that have successfully completed the EICA Digger/Derrick certification program will be able to demonstrate safe work operations and compliance with industry standards. EICA certified personnel are knowledgeable in the setup, inspection, operation, use of attachments, and machine equipment.

Crawler or wheeled machines (with augers and pole guides)

- Wheel mounted Digger/Derricks with single control station
- Wheel mounted Digger/Derricks with stationary or rotating control stations
- Track equipped Digger/Derricks with stationary or rotating control stations

The certification requirements for the Digger/Derrick type follows:

- The Digger/Derrick certification requires passing the EICA General Exam and the Digger/Derrick specialty exam.
- EICA, through operations and technical knowledge review, determined that EICA's General exam share many similarities between Cranes and Digger/Derricks for general safety, power systems, electrical line operations, travel, setup, personnel platform use and shutdown procedures identified in the Job Task Analysis and Content Outline.
- The Digger/Derrick Specialty Exam addresses only specific issues related to Digger/Derrick operations, their attachments and load chart use.
- Digger/Derrick certification is awarded upon successful completion of the General Exam, Digger/Derrick Specialty Exam and Digger/Derrick Practical Exam and any control type listed above.
- Crane certification is equivalent to type Stationary or Rotating Exam to be satisfied by using Digger/Derricks in tasks 1, 2, 3, 4, 5, and 6 and is not conducted in the same frame and under the same testing conditions for both Cranes and Digger/Derricks.
- Cranes with augers and pole guides may satisfy both the Digger/Derrick and Crane certification requirements.

Scope of Certification: Digger/Derricks_0625178



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Certification Time Frame



ISO/IEC 17024
Personnel Certification Program
#1211

All certifications are valid for a period of 5 years.

OSHA Update

- OSHA is delaying its deadline for employers to ensure that crane operators are certified by one year until November 10, 2018. OSHA is also extending its employer duty to ensure that crane operators are competent to operate a crane safely for the same one-year period.

OSHA Update

- **OSHA Crane Certification possible mandates:**
 - **Crane Certification by control type**
 - **Ex. stationary control and rotating control**
 - **Crane Certification by capacity**
 - **Ex. Under 21 tons, 21 to 75 tons, over 75 tons**
- **Exemption on Digger Derricks in construction??**

Mission Statement

- Promote responsible awareness through certification programs regarding safe and effective practices in the electrical industry; provide effective, valid, reliable and fair assessments that raise the standard of excellence for personnel and be the industry authority on those related occupations.

Written/Practical Exam Sites

- To get your site setup for hosting written and practical exams, download the site application online.

http://www.eica-us.org/wp-content/uploads/2017/07/Cranes_DiggerDerricks-Site-application_061317.pdf

EICA Practical Examiner Training Workshop

- Please contact EICA if you are wanting to get Practical Examiners trained and approved. Applications are online.



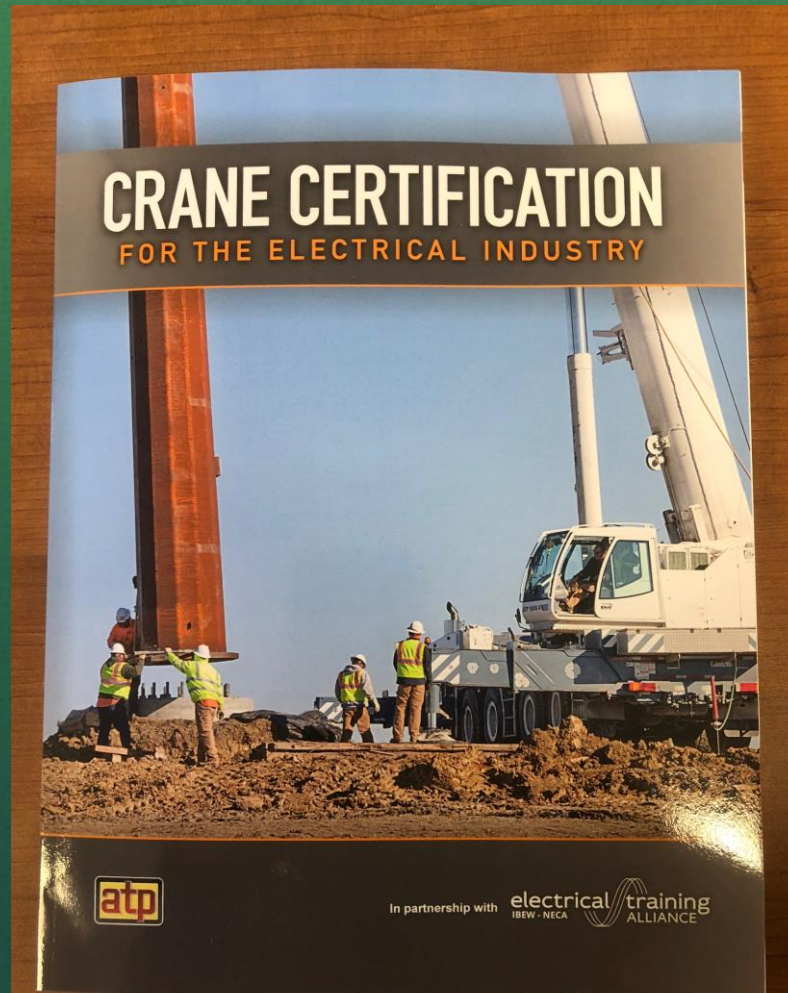
EICA's Training Policy

- EICA only offers certification exams. EICA does not endorse any training company.
- EICA strongly recommends taking a training class and reviewing the reference material listed in the candidate handbook before taking the written examinations.
- Companies and associations may request to be recognized by EICA in a written application. Companies may use EICA logos for marketing material if approved.

Training Providers

- Electrical Industry Certifications Association does not endorse any training provider. Training companies who provide preparatory training for EICA certifications can contact EICA to be listed on our the website.

Training Providers



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Accreditation

EICA is currently working towards ANSI accreditation.
... [read more](#)

Candidate Application

Combined Candidate Application ... [read more](#)

Candidate Handbook

Candidate Handbook
Practical Exam Instructions
Crane - Digger ... [read more](#)

1910.269

... [read more](#)

Electrical Industry Certifications Association

Scope of Certification – Stationary Control Crane

Scope of Certification – Rotating Control Crane

(Click to download)

Scope of Certification – Digger Derrick

(Click to download)

EICA's Crane and Digger Derrick certifications program is allowed to all individuals who meets the eligibility requirements below;

Operators shall be required to successfully meet the qualifications for the specific type of crane that they are operating.

1. Operator requirements shall include, but not be limited to, the following:

a. Evidence of successfully passing a physical examination or having a current Commercial Drivers License as defined in paragraph 2.a, 2.b, or 2.c below.

b. Satisfactory completion of a written examination covering operational characteristics, controls, and emergency control skills, such as response to fire, power line contact, loss of stability, or control malfunction, as well as characteristic and performance questions appropriate to the crane type for which qualification is being sought.

QUESTIONS?

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