



## COMPANY PROFILE – OFFSHORE



**Allcranetec**



## Who We Are



Allcranetec staff has been trained under the Regulations, Criteria and Culture of International Institutions, including Certification and Classification Societies, which are governed by the conventions and regulations of the International Labor Organization (ILO) and ICGB (INTERNATIONAL OFFICE GEAR BUREAU), for the purposes of providing the services of inspection, witnessing of load testing and certification of the hoisting equipment, fixed and mobile towing on board of mobile and fixed offshore vessels.

### OUR VISION

Our purpose is to make the a difference by the Quality of our counseling and service ability and become strategic partners with our customers, also our expertise and ability to collaborate in the achievement of the goals for safety.

In addition to be an extention of professional and personal development opportunities for our employees and a positive contribution to society by acting with a social commitment.

### OUR MISSION

Our safety, developing operations, maintenance, practices and procedures through the inspection services of the loading equipment fixed and mobile on board of mobile and fixed offshore vessels and inland through experts in the field to ensure that the hoisting equipment operate and is maintained in a secure manner.





# OFFSHORE CRANES

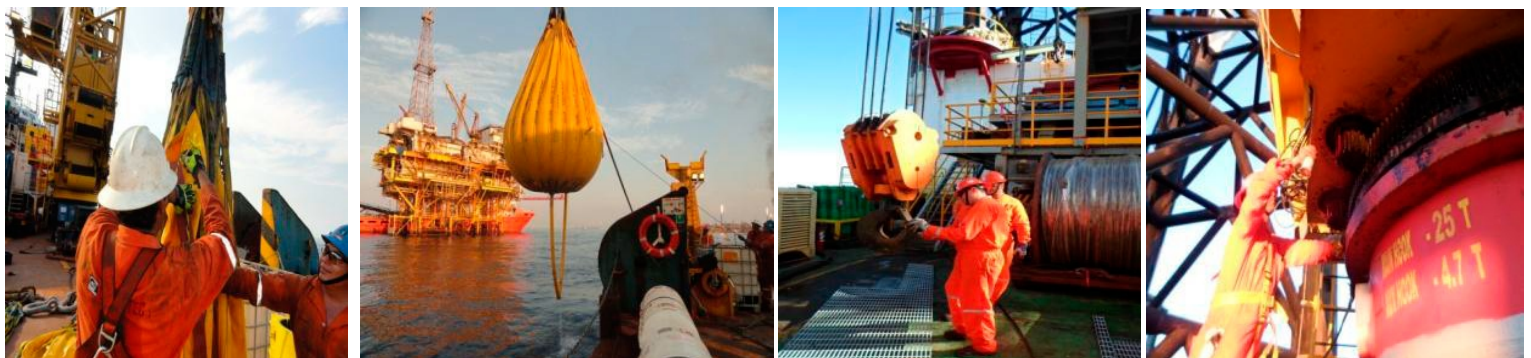


**Hoisting equipment Inspections (cranes, winches, davits, capstan, load booms, elevators, hoists, etc.), installed in a fixed or temporary manner on-board the fixed and mobile offshore vessels.**

### SCOPE:

The scope of this service of inspection and certification of hoisting equipment it intends to serve as a guide for the owners of the equipment and the operators, developing operations, maintenance, practices and procedures for use in safe operations.

Pedestal Cranes, Travelling Crane, Track cranes, Self transportable crane, Load booms, Loading frames, Winches, Davits, Capstans and all its accessories such as: shackles, strobes, slings, load bands, load hooks, etc. Under the normativity of API RP-2D "Operation and Maintenance of Offshore Cranes"



**Inspection and Load Test Witnessing**

## OFFSHORE CRANES



The inspection is intended to identify all deficiencies or points which may affect the safe operation and/or to reduce the lifting capacity of the loading equipment.

Methods and procedures will be used properly for the type of loading equipment. The actions taken to correct a deficiency must be carried out as soon as applicable.

Once corrected the deficiency, a new inspection to systems in general affected will be performed, and finally there will be a load test in order to register their safe operation.

To follow up on the effectiveness of maintenance programs proposing improvement actions to reduce costs, execution time without losing the goal of having a safe operation.





# OFFSHORE CRANE INSPECTION AND CERTIFICATION



## LOAD TEST

You will get a known weight and according to the applicable condition on the basis of the loading equipment table of capacities, which will be attached by one end to a DYNAMOMETER with calibration in force, and the other end connected through shackles with sufficient capacity toward the hook block of the loading equipment.

The safety factors in excess applicable for load tests are the following:

For equipment with SWL up to 20 tons – 25% in excess

For equipment with SWL between 20 and 50 tons – 5 tons in excess

For equipment with SWL above 50 tons- 10% in excess.

Note: SWL (Safe Working Load)



# GROUND MOBILE CRANE



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## CERTIFICATION SERVICES:



### GROUND MOBILE CRANES OF ALL TYPE FROM 500 LB TO 14200 TON.

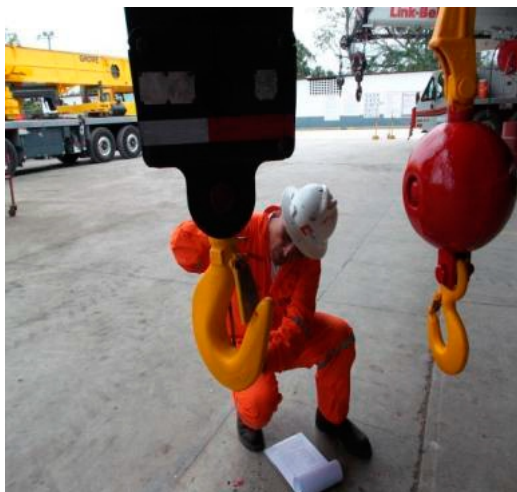
Ground mobile cranes certification.  
Construction machinery, all type of cranes, such as.  
Travelling cranes.  
Derrick crane Articulated.  
Crane Hydraulic.  
Crane Gantry.  
Cranes on rails

### Hoisting equipment certification.

Strobes.  
Slings.  
Shackles.  
Wire ropes.

### Heavy machinery certification.

Front end loader  
Backhoe.  
Forklift.  
Bulldozer Moto.  
grader





**INSPECTION OF:**

- **LIFEBOATS**
- **DAVITS**
- **AFLOAT ARRANGEMENTS**
- **LOOSE LOAD GEAR**





## CERTIFICATION AND INSPECTION OF LIFEBOATS



At every inspection that we perform make sure to establish the uniform performance, secure services and documented and periodic maintenance of the Lifeboats, launching appliances and loose gear load, contributing to the assets to strengthen the maintenance processes for the reduction of risks, costs and time of execution, in compliance with the current regulations and international standards:



Regulation III/20 of SOLAS Convey (Safety Life at Seas) – Functional availability, maintenance and inspection.

Regulation III/36 of SOLAS Convey – Instructions for maintenance on board.

Mexican Official Norma NOM-037-SCT4 – 1999 – Requirements that must comply with the stations that give services to Lifeboats totally enclosed.

## LIFEBOAT TEST WATER BAGS



### Lifeboat Test Water Bags (LBT)

To fulfillment load test in lifeboats, we count with bags that are designed and make under IMCA D-016 international standard compliance, to have security compliance, for best guarantee and easier operation in test loads.





## LAUNCHING MECHANISMS:

The configuration and maintenance of the launching mechanism are fundamental operations with regard to the proper functioning of the lifeboat and the safety of personnel aboard the same.

All the operations of maintenance of this equipment will be carried out, therefore, with the greatest attention.

## DAVIT:

Load test and functionality of davits .

Our scopes meet the verification and compliance of the rules in order to make sure that its condition and function are satisfactory.



# CRANE OPERATORS AND MANEUVERERS



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## TRAINING COURSE FOR CRANE OPERATORS



Under the judgment of the Occupational Safety and Health Administration (OSHA), issued in August 2010, the certification of crane operator has acquired a new list of training needs.

### PERSONNEL CERTIFICATION:

- Verification
- Training
- Diagnosis
- Ground and offshore cranes operators and maneuverers certification.

We perform the entire process that supports the competence of cranes operators, supervisors, and maneuverers, verifying that they are complying with all the requirements of applicable regulations API RP 2D, NOM-006-STPS, NOM-009-STPS, NOM-017-STPS; ASME B30.5, NOM-004-STPS, NEN-CV/324; ASME B30.9, ISO-9927-1, DIN 39/2002.



# OPERATORS TRAINING CONTENT



- basic Knowledge Of The Offshore Cranes.
- general Knowledge Of The Standard Api Rp 2d (offshore Cranes Operation And Maintenance )
- operating Procedures And Practices. Hoisting Plan (critical And Non Critical).
- wire Cable
- cable Types
- breaking Strength In Tons
- accessories Hooks Shackles, Pulleys, Chain, Slings
- interpretation Of The Load Tables Of The Equipment In Which To Certify As An Operator.
- load Rigging (selection And Strength Calculations).
- safety Standards In The Operation
- functions And Responsibilities Of The Operator
- operators Attitude

## PRACTICAL EVALUATION TO OPERATOR

- equipment Operation.
- interpretation Of Crane Capacities Tables.
- knowledge And Answer To Hand Signals.
- precision In The Loading Movements.
- good Judgment And Attitude Before Operation Risks.
- loading Management.
- knowledge Of The Load Exact Weight.
- gear Selection.
- cargo Gear Inspection.
- load Rigging.
- cargo Movement.
- gear Storage And Handling.



## WILL BE DELIVERED OPERATOR FOLDER :

- Manual Of The Articulated Crane Operator.
- Grade Obtained In Final Exam
- Grade Obtained In The Operational Skills
- Comments And Recommendations
- Occupational Competency Certificate For Staff To The Certification Course
- Attendance Record Of The Course
- Stps Dc-3 Record Of Skills.
- Operator's Health And Safety Registry.
- Certificated Operator Credential.



## COURSES



We are currently providing "**MAINTENANCE COURSES FOR OPERATORS**" Where we want to ensure that the operator has as main interest the proper functioning of the equipment.

It is important to know the type of basic maintenance that need these equipment, in each operation, will preserve more even the life and the good condition of the equipment.

In addition to know the specifications and the capacity of the equipment; overload it may cause an accident.

Accidents that may result in this type of maneuvers in good measure are due human failures caused by ignorance.



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### COURSE TOPICS CRANES OPERATION AND MAINTENANCE

- 1.- Initial Diagnostic Evaluation
- 2.- Core Components Of The Cranes
- 3.- Operation And Maint. Of Cranes Unit 10,000
  - 3.1.- Hydraulic Diagram Interpretation Of The Hydraulic Crane Unit 10.000, Unit 5.000, Nautilus, Seaking.
  - 3.2.- Systems Of Operation Of The Crane
  - 3.3.- management Of The Special Tool To Lower Loads In An Emergency Situation.
  - 3.4.- Crane Restoration In An Emergency
  - 3.5.- Security Systems In The Crane Unit 10,000
  - 3.6.- Normal Reset Of Emergency Shutdown Of The Crane Unit 10.000
  - 3.7.- Most Common Failures In Field And Its Correction
- 4.- Final Assesment At The End Of The Event The Participant:

Will apply an effective preventive maintenance to the maneuvers cranes under his duty to avoid not programed shutdowns.

This will be carried out taking into account the health and safety standards in the workplace.

**DURATION: 40 HOURS**





## CONTENT OF THE MAINTENANCE COURSES



### OBJECTIVE OF THE MAINTENANCE COURSE FOR OPERATORS.

Obtain the basic knowledge of hydraulic that will allow you to interpret various hydraulic graphics circuits of different equipments to diagnose failures in an effective manner.

The foregoing will be carried out taking into account the health and safety standards in the workplace

- 1.- Basic Mechanics
- 2.- Hydraulic Systems In Maneuvers Cranes
- 3.- Pneumatic Systems In Maneuvers Cranes
- 4.- Operation And Maintenance Of The Braden Winch
- 5.- Maintenance Of Cables And Pulleys
- 6.- Operation And Maintenance Of Maneuvers Cranes



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## CONTENT OF THE MAINTENANCE COURSES



### BASIC MECHANICS COURSE TOPICS

- 1.- Initial Diagnosis Evaluation
- 2.- Units Scale And Its Application
- 3.- Management Of Inches And Its Conversions
- 4.- The Royal Measure Implementation
- 5.- Handling Of Standard English Vernier
- 6.- Failures Diagnosis
- 7.- Final Diagnostic Assessment

**DURATION: 40 HOURS**



#### **NOTE:**

*Any student who wants to specialize in mechanical should take this course as a technical platform for the basic understanding of future topics.*



# CONTENT OF THE MAINTENANCE COURSES



## BASIC MECHANICS COURSE TOPICS

- 1.- Instructor And Students Presentation
- 2.- Agenda Reading And Course Objective
- 3.- Initial Diagnostic Evaluation
- 4.- Definition And Classification Of The Hydraulic
- 5.- The Hydraulic Characteristics
- 6.- The Principle Of Pascal And Its Application
- 7.- Bernoulli's Principle And Its Application
- 8.- The Laminar And Turbulent Flow
- 9.- The Fluid Speed Of The Hydraulic Lines
- 10.- Designation Of Hydraulic Lines According To Their Location
- 11.- Internal Diameter Calculation Of The Flexible And Rigid Lines In A Hydraulic Circuit
- 12.- Capacity Calculation Of A Hydraulic Reservoir
- 13.- Calculation Of The Minimum Pressure To Break A Line
- 14.- Care In The Hydraulic Lines Installation
- 15.- The 7 Most Important Elements Of A Hydraulic System
- 16.- Pictorial Drawings And graphic Diagrams
- 17.- Rules To Draw A Hydraulic Graphic Diagram
- 18.- Final Diagnostic Assessment

**DURATION: 40 HOURS**

**AT THE END OF THE COURSE THE PARTICIPANT:**

**Will acquire basic hydraulic knowledge that will let him apply effective preventive maintenance to units in charge of him.**



## OTHER COURSES



- Intermediate Hydraulic
- Advanced Hydraulic
- Basic Pneumatic
- Intermediate Pneumatic
- Advanced Pneumatic
- Cranes Operation And Maintenance



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# CRANE MAINTENANCE



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## CORRECTIVE AND PREVENTIVE MAINTENANCE



### Preventive and corrective maintenance of general heavy machinery in land and offshore

- Hydraulic, Electric, Pneumatic Systems
- Cable Change
- Calibrations
- Among Others.



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# NON DESTRUCTIVE TESTS INSPECTION



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## CERTIFICATION SERVICES:



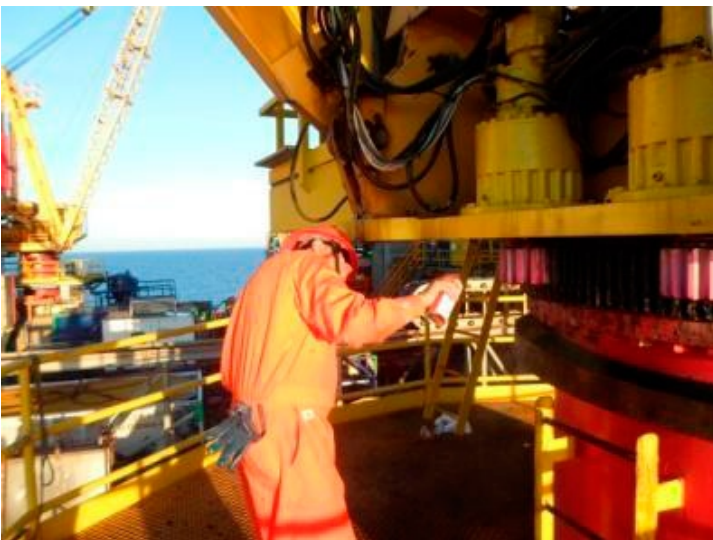
### WE SPECIALIZE OF:

WE HAVE TECHNICAL SPECIALISTS IN NON DESTRUCTIVE TESTS CERTIFICATE LEVEL II, BY ASNT-TC-1A-2006.

- 1.- Visual Inspection
- 2.- Dye Penetrant
- 3.- Dry Magnetic Particle
- 4.- Wet Magnetic Particle
- 5.- Ultrasound
- 6.- Vacuum Chamber
- 7.- Interpretation Of Radiographic Film
- 8.- Rating Of Welders In Accordance With Standards:



Asme section v. - non-destructive testing asme section 1x. - rating of ability of welders  
asme section viii, div. 1, api- 510, api- 650, api-653



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**We provide 100% training in Spanish with all the following courses:**

### **TRAINING**

- Qualified Signal Person
- Qualified Rigger Level I
- Qualified Rigger Level II
- Qualified Rigger Level III. Director
- Mobile Cranes Operator
- Boom Truck Operator
- Knuckle Boom Truck Operator
- Pedestal Cranes, Marine Platforms, Shipyard Operator
- Overhead Cranes Operator
- Tower Cranes Operator
- Forklift Operator
- Telescopic Boom Forklift Operator
- Aerial Platforms Operator
- Inspector Courses
- OSHA Regulations
- Earth Moving Equipment
- Mechanics Skills

### **SERVICES**

- Deficiency Analysis
- Writing Procedures
- Accident Investigation
- Skills Development
- Personalized Program Development adapted to your requirements
- Training in your Company
- Qualifying your Company
- Operator Certification
- Operator Training
- Rigger Certification
- Rigger Training
- Training in our installations
- Training Seminars
- Business Consulting
- Evaluation Analysis
- Personnel Management
- Online Courses

**We offer Industrial & Occupational Safety Training Courses:**

### **APEC Courses**

- Basic/10
- Basic Orientation
- SafeLand
- SafeGulf
- Anti-terrorism
- HS2 Course
- GHS/JSA Course
- Basic Intro to Pipeline

### **Training Centers:**

**USA · Mexico · Central America · Panamá · Colombia · Caribbean**

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1 713 589 4800

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# **ACTITI**

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# **APEC**

**SAFETY**