

**GENERAL INSTRUCTION MANUAL**

ISSUING ORG. ROADS &amp; HEAVY EQUIPMENT DEPARTMENT

SUBJECT CRANE LIFTS: TYPES AND PROCEDURES

G. I. Number 7.028 *Approved*

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**1.0 PURPOSE**

This General Instruction (GI):

- 1.1 Specifies the methods, procedures, and responsibilities for performing standard lifts and critical lifts that involve onshore cranes operated by Saudi Aramco and/or contractor personnel.
- 1.2 Defines various types of crane lifts.
- 1.3 Identifies procedures required for performing various types of crane lifts.
- 1.4 Identifies the categories and work capacities of riggers.
- 1.5 Improves Saudi Aramco and contractor safety performance when involved in crane activities.

**2.0 REFERENCES**

It shall be the responsibility of Saudi Aramco USERS and contractors to make themselves familiar with the current version of the various publications referenced below.

ASME: American Society of Mechanical Engineers

SAES: Saudi Aramco Engineering Standard

- A) ASME B30.1 Jacks
- B) ASME B30.2 Overhead and Gantry Cranes (Top Running Bridge, Single or Multiple Girder, Top Running Trolley Hoist)
- C) ASME B30.3 Construction Tower Cranes
- D) ASME B30.4 Portal, Tower and Pillar Cranes
- E) ASME B30.5 Mobile and Locomotive Cranes
- F) ASME B30.6 Derricks
- G) ASME B30.7 Base Mounted Drum Hoists
- H) ASME B30.8 Floating Cranes and Floating Derricks
- I) ASME B30.10 Hooks
- J) ASME B30.11 Monorails and Underhung Cranes
- K) ASME B30.14 Side Boom Tractor
- L) ASME B30.16 Overhead Hoist (Underhung)
- M) ASME B30.17 Overhead and Gantry Cranes (Top Running Bridge, Single Girder, Underhung Hoist)
- N) GI 2.100 Work Permit System
- O) GI 2.702 Moving Drilling Rig, High Clearance Equipment/Loads, or Operating Cranes Under or Near Power Lines
- P) GI 7.024 Marine and Off-Shore Crane, Hoist and Rigging Operations
- Q) GI 7.025 Heavy Equipment Operator Testing and Certification
- R) GI 7.026 Cranes, Elevating and Heavy Equipment Accident Reporting
- S) GI 7.027 Crane Suspended Personnel Platform (Manbasket) Operations
- T) GI 7.029 Rigging Hardware Requirements
- U) GI 7.030 Inspection and Testing Requirements of Elevating/Lifting Equipment
- V) SAES-A-114 Excavation and Backfill
- W) SAES-B-063 Aviation Obstruction Marking and Lighting
- X) Saudi Aramco Construction Safety Manual
- Y) Saudi Aramco Job Training Standards:
  - 1) Basic Crane Operator
  - 2) Advanced Mobile Hydraulic Crane Operator
- Z) IPT's Crane and Rigging Handbook

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**United States. Bureau of Labor  
Statistics**



## **Saudi Aramco General Instructions Manual:**

**Safety Fundamentals and Best Practices in Construction Industry** Pedro P. Marfa, 2016-06-09 This book intends to help safety practitioners project managers construction managers and craftsmen who are determined and self motivated persons to strengthen their knowledge in safety which is a prime importance of a construction company in the protection of well being and company assets during the execution of the project It provides guidelines to develop company Occupational Health and Safety Program OHSP in preparation to become a contractor in government projects in private sectors and in oil and gas producing facility It gives a wide understanding for both safety practitioners and company site management the required occupational health and safety documentations mainly for the companys safety program and best safety practices accepted by the client and align with international safety regulations as prescribed in Occupational Safety and Health Administration OSHA for the construction industry The contents of this book describes specific steps in developing effective organizational structure occupational health and safety program lesson learned management responsibilities hazard identification plan HIP job safety analysis JSA method statement performance measurement and recommendations on the best safety practices that can be applied in any government project private sectors and oil and gas producing facility projects With the vast knowledge and experiences in safety acquired from training seminars from international and local organizations the author will bring you into the real world in the construction field *Saudi Aramco and Its People* Thomas A. Pledge, 1998 **Guardian of the Holy Land** Ammar Alghamdi, 2017-02-21 Guardian of the Holy Land is a book about the untold stories of the place which damaged my life and others lives A country where people are brain washed It is about the regime who created the school of terrorism This book discusses some of the Royal family who fooled many people and made fun of many their locals steeling their wealth and health It is a short book but very informative about what I think is the worst most damaging country the world has right now A dramatic change should take place at least the way we as human should think of that kingdom An analysis of the effect of capitalizing exploration and development costs in the petroleum industry Muhiadin Rashad Tarabzune, 1984 **Guide to Port Entry** , 2001 **Lloyd's Register OneOcean's Guide to Port Entry 1995-96** **Latvia-Zaire** Lloyd's Register Foundation, 1995-01-01 First published in 1971 these Guides provide invaluable information on thousands of commercial ports and terminals across the globe They are compiled and published annually by LR OneOcean whose years of global maritime experience allows them to provide expert and innovative solutions that enhance efficiency sustainability and overall industry success The Guides cover a significant geographical breadth and the most recent volume includes information on over 12 500 ports harbours and terminals worldwide These are fully indexed and contain detailed port plans and mooring diagrams *Lloyd's Register OneOcean's Guide to Port Entry 1993-94* **Kenya-Zaire** Lloyd's Register Foundation, 1993-01-01 First published in 1971 these Guides provide invaluable information on thousands of commercial ports and terminals across the globe They are compiled and published annually by LR OneOcean

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Labor Law and Practice in the Kingdom of Saudi Arabia United States. Bureau of Labor Statistics,1973 Monograph on labour law and practice in Saudi Arabia comments on labour legislation public administration labour administration and labour relations employment working conditions hours of work wages occupational health occupational safety social security etc Bibliography pp 101 to 103 flow chart graphs and statistical tables

*Annotated Bibliography of Culture-general Sources for Cross-cultural Training* Janey Trowbridge,Sally Walton,1987

*International Notams* ,1975

**Resources in Education** ,1988

BLS Report ,1973

**Report** ,1972

Instructor ,1974-02

International Computer Bibliography Stichting Studiecentrum voor Administratieve Automatisering,National Computing Centre Limited,1968

Normal Instructor ,1968

International Migration Today Charles W. Stahl,Unesco,University of Western Australia. Centre for Migration and Development Studies,1988

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