

Lifting Experts Teach Online Course for Rigging Engineers



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Parnell says he worked with Anderson and others for about a year to get the program off the ground. "If someone sat down to do the whole course, it would probably take them three to four weeks," explains Parnell, who adds that the course is seeking accreditation from the American Society of Mechanical Engineers and the U.K.'s Lifting Equipment Engineers Association. "Think of our program like an executive education course at Stanford," Parnell says.

The course is designed for two tracks, Parnell adds. The first track is for engineers who hold a bachelor's degree in civil or mechanical disciplines and are looking to learn more about rigging and load handling. The second track is for experienced managers who have never received a formal engineering education but are tasked to build, execute and oversee complex lift plans using a variety of equipment.

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By Tudor Van Hampton

When John Glinski heard about a new online course for rigging engineering, he knew he had to sign up.

"I wanted to increase my knowledge," says the 56-year-old Fluor Corp. employee and safety manager of cranes and rigging for Tappan Zee Constructors. "I wanted to know the engineering behind everything because it makes you a better rigger."

Rigging engineering is not yet a recognized profession, but Glinski and many others in the construction industry work every day as rigging engineers. Not purely riggers or engineers, they regularly blend theories of civil, structural and mechanical engineering with the practical application of planning lifts, calculating mass and moving loads. All the while, they hold the heavy responsibility of keeping workers and the surrounding public out of danger.

"It's high-risk activity," says J. Keith Anderson, who is the chief rigging engineer of Bechtel Corp. and author of "Rigging Engineering Basics," a 434-page book published last year that serves as a companion to the online course. The book's publisher, Industrial Training International, introduced the online course in January. There are about 40 students enrolled to date.

Prospective students include "young, educated engineers who want to learn something of the rigging discipline," says Anderson. "They could also

be people doing a sterling job in the craft who want to get some of the theory," he adds.

The course includes classes on connections, stresses, hydraulics, lift design, cranes, derricks, strand jacks and load control. Classes are pre-recorded and presented on demand over the Web, so students can go at their own pace.

"It's great that the technology allows us to do this kind of thing," says Anderson, one of 20 instructors comprising a who's who of the lifting, rigging and heavy-haul worlds. "They are all well-respected in their own disciplines," Anderson says.

The first class is a review of high-school trigonometry, in which students learn how to calculate sling angles and other equations needed to apply basic rigging techniques. More advanced classes get into specialized topics, such as off-level pick points and vessel upending.

"The whole idea of this is to provide a basic grounding that people can use as they see fit to supplement their own in-house needs," says Anderson.

As construction projects are placing more difficult demands on workers and lifting technology is becoming more complex, the need for knowledge transfer is critical, according to Zack Parnell, vice president and chief operating officer of Woodland, Wash.-based ITI.

"Keith believes that a rigging engineer has so much liability," says Parnell. "It's equivalent to a professional engineer designing a building. A building has to sustain people for decades; a lift also involves many people."

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California Sub-Bid Request Ads

Sub Bids Requested From Qualified
LBE Subcontractors & Suppliers for

City of Pinole - Pinole Skate Park

Location: Pinole, CA

Bid Date: March 10, 2015 @ 10:00 AM

McGuire and Hester is seeking qualified subcontractors in the following trades: concrete ready-mix; sand & gravel; trucking; storm drain pipe; rebar; fencing; electrical lighting; electrical security camera; and erosion control.

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AND RECYCLED WATER LINE; CONTRACT NO. PWS13-40UTIL**

Project Owner: City of Carlsbad, CA

Project Location: Carlsbad, CA

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Contact: **Arinda Cale**, acale@pulice.com; **Kimberly Bell**, kbell@pulice.com

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Authorization No. 0928-WH286B

Owner: Contra Costa County

Bid Date: March 12, 2015 at 2:00 P.M.

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of 98th Avenue in Oakland - Zone No. 12 Project**

Alameda County Flood Control and Water Conservation District

Spec No. FC 12-D-195

Goals: MBE 15% / WBE 5%

110 working days

Bid Date: 3/11/15 @ 2:00pm

Requesting Sub-quotes for (including but not limited to): Fabric and Oils, Clear & Grub, Road-
way Excavation, Landscaping, Hydroseeding, Erosion Control, Aggregate Base, Fencing, Dewatering,
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2 AB, new concrete drain inlet, reconstruct drainage swale, new concrete vertical outfall, drainage flap
gates, Hydroseeding, wetland planting, new black vinyl clad chain link fence & gate.

RGW is willing to breakout any portion of work to encourage MBE/WBE participation. Contact us for
a specific item list.

Plans and Specs are available to view and copy at our office or online at www.ipdservices.com/clients/eastbay?ALCO or contact Central Blue Print 510-276-3375. Contact Dave Czech 925-606-2400 for any
questions, including bonding, lines of credit, insurance, equipment or material suppliers. Subcontractors
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REQUEST FOR LBE, SLBE & DVBE SUBCONTRACTORS AND SUPPLIERS FOR:

955 High Street Paving Phase 2

Oakland Unified School District

BID DATE: March 17, 2015 @ 2:00 PM

We are soliciting quotes for (including but not limited to): Trucking, Demolition, Class 2 Contami-
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Contact: **Mike Crowley**

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100% Performance & Payment Bonds may be required. Worker's Compensation Waiver of Subrogation required.
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California Sub-Bid Request Ads

Balfour Beatty Construction

2335 Broadway, Suite #300 • Oakland, CA 94612
(510) 903-2054

Contact: Chet Brians • cbrians@balfourbeattyus.com

PROJECT: Transbay Block 9

LOCATION: San Francisco, CA

BID DUE DATE: March 26, 2015 at 2:00 PM

OCII project and 50% SBE / LBE goal

SCOPE OF WORK: Bid Package Group 1:

- Mechanical Systems – Design/Build
- Electrical – Design/Build
- Curtainwall Systems – Design/Build
- Shoring Systems – Design/Build
- Dewatering Systems
- Plumbing – Design/Build
- Fire Protection – Design/Build
- Elevators – Design/Build
- Excavation, Remediation and Demolition

Proposing Subcontractor/Supplier

You are hereby invited to submit a bid proposal to provide labor, material and equipment as necessary to perform the Work according to the your respective discipline per the corresponding Bid Package(s) listed above for the **Transbay Block 9** located in San Francisco, California. Your bid is to be in based on the Contract Documents, as prepared by SOM, and other Bid Instructions, Contract Appendices, and Attachments.

KEY DATES/INFORMATION

PRE-BID MEETING: March 5, 2015 at 2:00PM
LOCATION: San Francisco Branch Library
 Park Meeting Room
 1833 Page Street, San Francisco, California
LAST DAY FOR RFI'S: March 18, 2015 at 4:00PM
FINAL ADDENDA: March 20, 2015 at 4:00PM
BID PROPOSALS DUE: March 26, 2015 at 2:00PM

Bid Documents and other pertinent information can also be downloaded directly from Balfour Beatty Construction's **Egnyte** site at the following link:

Link to bid documents:
<https://bbcus.egnyte.com/fl/3wucvVl4z2>

Link to prequalification site:
www.balfourbeattyus.com

Plans and Specs. are also available at Balfour Beatty Construction office.

Shimmick Construction Company, Inc.

DBE Subcontractor/Supplier Bids Requested For:

San Francisco Bay Area Rapid Transit District

Fiber Optic Installation on the M-Line, K-Line, C10 and R10

Contract No. 15EL-171

Bid Date: March 17, 2015 until 2:00PM

Fax all quotes to 510-777-5099

Requesting certified DBE Subcontractor and Supplier Quotes on **Electrical Fiber Optic, Electrical Low Voltage Systems, Railroad Work, Jacked Welded Steel Pipe, Coring**

Contract Documents may be purchased from the District Secretary's Office, San Francisco Bay Area Rapid Transit District, in person on the 23rd Floor at 300 Lakeside Drive, Oakland, CA 94612 or by mail at P.O. Box 12688, Oakland, CA 94604-2688 or are available for viewing by appointment only at Shimmick Construction's Office: 8201 Edgewater Drive, Suite 202, Oakland, CA 94621.

Subcontractors and Suppliers interested in this project may contact Greg Adams by phone at (510) 777-5040.

100% Performance and Payment bonds with a surety company subject to approval of Shimmick Construction Company, Inc. are required of subcontractors for this project. Shimmick Construction will pay bond premium up to 1.5%. Subcontractors will be required to abide by terms and conditions of the AGC Master Labor Agreements and to execute an agreement utilizing the latest SCCI Long Form Standard Subcontract incorporating prime contract terms and conditions, including payment provisions. Shimmick Construction's listing of a Subcontractor is not to be construed as an acceptance of all of the Subcontractor's conditions or exceptions included with the Subcontractor's price quote. Shimmick Construction requires that Subcontractors and Suppliers price quotes be provided at a reasonable time prior to the bid deadline to enable a complete evaluation. For assistance with **bonding, insurance or lines of credit** contact **Scott Fairgrieve** at (510) 777-5000.

Shimmick Construction Company Inc.

8201 Edgewater Drive, Suite 202 • Oakland, CA 94621
 Phone (510) 777-5000 • Fax (510) 777-5099

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Taber Construction Inc. is requesting proposals from qualified DVEB, DBE, MBE, WBE, SBE, SLBE and all other subcontractors and suppliers for the

Paul Revere Elementary School

Location: San Francisco, CA

Bid Date: March 31, 2015 @ 2:00 PM

(Sub bids due by 1:00 PM via fax)

General school modernization and reconstruction, including but not limited to mechanical, electrical, plumbing and other finishes.

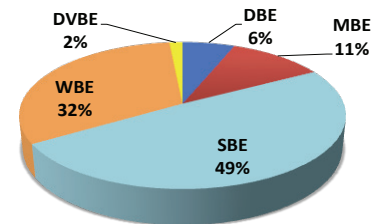
Plans and specs can be Viewed in our office during normal working hours. All subcontractors will be required to execute a standard Taber Construction Inc subcontract agreement without modifications. A copy of the standard agreement will be furnished upon written request. Taber Construction Inc is an equal opportunity employer and signatory to the Carpenters and Laborer's Collective Bargaining Agreements. Subcontractor performance and payment bonds will be required from all subcontractors. For assistance with bonds, insurance, lines of credit, material and equipment procurement contact our office. Taber is willing breakdown larger work items into smaller units of work.

Taber Construction Inc.

2278 Pike Court Concord CA 94520
 Phone (925) 682-6133 • Fax (925) 682-6122

AUDIENCE PROFILE

Small Business Exchange, Inc.



Lifting Experts Teach Online Course for Rigging Engineers

Continued from page 1

Glinski, who falls into the second group, has completed most of the course's first module, "Introduction to Rigging Engineering," which takes 24 hours and costs \$1,795.

To complete the full coursework, students must sit through five core modules, plus two out of seven possible electives. The total cost, on average, is about \$10,000.

The money is worth paying, Glinski says, because "you can't put a price on knowledge."

Source: <http://enr.construction.com>



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