

CRANE TECH®

WorldWide Service



Crane Tech
Serving The Material Handling Industry Since 1977

Crane Tech

*Y*our competitive advantage is directly related to the effectiveness of your personnel. Crane Tech improves that effectiveness through training and workforce development. We improve quality and safety through training and engineering, delivering the skills and technology to improve your organization work flow, safely and profitably—just as we've done for many of today's most successful global companies.

Whether you are working with cranes or forklifts, front-end loaders or scaffolding, have the need to improve your riggers', operators', inspectors', or supervisors' skill; are working under OSHA or a specially regulated industry; Crane Tech will qualify your personnel, extend the service life of your equipment and reduce your exposure to accidents.

Services

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Crane accidents and accidental damage cost industry billions each year. Build reliability into every job with specialized crane operator and inspector training.



Inspections help you meet strict OSHA regulations and will reduce repair costs and unnecessary downtime. Ensure compliance and extend the life of your valuable equipment.



Hands-on training coupled with performance qualification ensures your personnel are equipped to meet their job challenges. Training prepares personnel for NCCCO testing and provides the foundation for crane operation safety.



Overhead crane and hoist operation, in the opinion of many is simply an act of pushing a button or pulling a lever. Don't let these seemingly simple acts deceive you. The skill and judgment necessary require considerable skill.



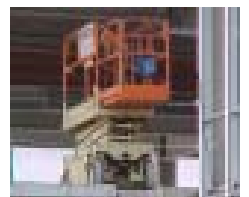
Rigging is one of the most misunderstood and dangerous jobs in industry. Knowledge of sling stress, components, turning and drifting loads, and other common tasks requires precision and skill.



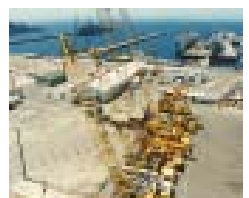
From trenching and shoring to front-end loaders and dozers, Crane Tech offers dynamic specialized earth moving machinery training.



Personnel handling is one of the most critical areas and programs are available on aerial lifts, scaffolding and personnel baskets for operators, users and management.



Crane Tech provides accident investigations, site safety surveys, expert witness testimony, pre-purchase evaluations, and equipment application assessments.



Reliability

Construction • Industrial • Marine

Crane Tech dedicates thousands of man hours and resources each year to bring you innovative services which ensure the finest quality services available.

When selecting a training company ask about:

Instructor qualifications;
Course manuals;
Compliance issues;
Site-specific orientation;
Computerized presentations;
Guaranteed delivery;
Years in service;
References.



All too often management relies on word alone regarding the qualifications of equipment operators. In 1999 such a relationship in Tampa, Florida resulted in an unskilled, untrained construction forklift operator striking power lines

that created a \$40,000,000 loss, and a full year of lost production.

Documentation of operator training may sound insignificant, especially when told “they’ve been checked out.” But the consequences of allowing untrained operators on your job-site are costly. Lost production time, increased costs for damaged equipment, inefficient operations, accidents and noncompliance can cost thousands, if not millions of dollars.

Training improves your work flow, increases profitability and provides safety measures not otherwise available. How often are you experiencing a “near miss”? Do you wonder why certain jobs take so long to complete? Are you constantly explaining why you are experiencing work delays and added costs?

Crane Tech specializes in material handling training and can provide just the service you need to increase job-site safety and increase profits. Call on us to help build reliability into your work and profits to your bottom line.



Learn how Crane Tech Services may assist you.

No-obligation quotes provided.

1.800.521.7669

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On-Site Training

On-site training is our most requested service and your call puts a team into action customizing a program for your exact needs. Technical training, hands-on training and workshops are each geared to your facility for on-site orientation. Your organization's equipment, regulatory requirements and your personnel's level of experience become focused elements—each addressed as critical elements of your program.

Whether you are working in construction, manufacturing, transportation, mining, power generation, a marine industry or any of the vast industries utilizing material handling equipment—Crane Tech programs will improve safety, increase the skill of your personnel, help add years to the life of your equipment and ensure your continual compliance with regulations.

Crane Tech services don't stop when your training is complete. You can count on toll free, no-charge, technical support for as long as you require.

Exceptional quality training that will serve your company for many years.

All On-Site Programs Include

◆ **Customized Program Content.**

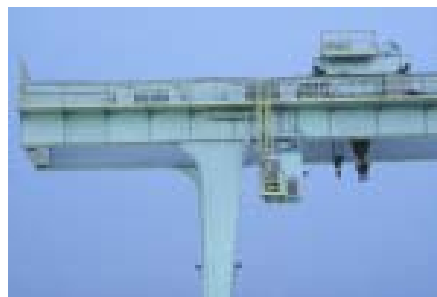
Site specific training is tailored to your work-site, personnel, job requirements and equipment.

◆ **Hands-on Training.**

Conducted using your equipment enabling qualification to specific equipment.

◆ **Programs are Confidential.**

Allowing your personnel to discuss sensitive issues specific to their facility and operations.



Training At Your Location

Programs Immediately Available

Mobile Cranes & Rigging
Mobile Crane Inspector
Overhead Cranes & Hoists
Overhead Crane Inspector
Applied Rigging Practices
Advanced Rigging
Boom Trucks
Conventional Forklifts
Aerial Lifts
Telescopic Boom Forklifts
Complex Lift Planning
Straddle Lifts
Front-End Loaders
Skid-Steer Loaders
Backhoe & Trenching
Dozers
Gantry Cranes
Hoist Inspector
Rigging Inspector
Floating Cranes
Locomotive Cranes
Scaffold Building Safety
Pedestal Cranes
Portal Cranes
Ship-Mounted Cranes
Sling Manufacturing
Reach Stacker Operator
OSHA 10 & 30 Hour
**General Industry &
Construction**

1.800.521.7669

Crane Tech fully endorses the national certification program offered by the National Commission for the Certification of Crane Operators (NCCCO), and will prepare candidates for the CCO tests.

We help your company meet these stringent new standards of operation by providing exceptional instruction by NCCCO qualified instructors.



If the workforce is to be held accountable for safe crane activities, they must receive quality instruction from a reliable source.

Mobile Cranes

Mobile cranes, by their design and commonly adverse operating conditions, present a greater potential for serious injury and property damage than other types of material handling equipment.

The forces involved, effects of weather, dynamics, manufacturers' limitations, difficult to interpret load charts—which publicize capacities within a small percentage of tipping or structural failure, combine to allow only a small margin of error. A few miscalculations can rapidly eliminate this safety margin.



Help your personnel gain the necessary skills to eliminate guesswork, accidents and work stoppage. Personnel work with renewed confidence after completing these courses, building reliability into every job.

Major Course Topics

- ◆ Crane Failures and Accident Avoidance
- ◆ Regulations and Compliance
- ◆ Use of Load Rating Charts
- ◆ Proper Crane Set-Up
- ◆ Structural and Stability Limitations
- ◆ Load Handling
- ◆ Pick and Carry Operations
- ◆ Jibs and Extensions
- ◆ Hand Signals and Communications
- ◆ Pre-Operational Inspections
- ◆ Complex/Critical Lifts
- ◆ Inspection, Testing and Certification



Mobile Crane Inspector

Comprehensive Training



Mobile crane inspector training provides in-depth coverage for anyone responsible for crane inspection, equipment reliability, certification and loss control. Companies gain the ability to perform in-house inspections and the confidence that your personnel are properly trained to meet OSHA qualification requirements.

Programs include in-depth coverage of crane component inspection, crane evaluation,

inspection methods, use of inspection tools and proper reporting. Training and certification of inspectors ensures competency and builds reliability into your material handling safety program.



Learn crane inspection and OSHA compliance from a company with a quarter century of OSHA compliance inspection experience.

Major Course Topics

- ◆ Crane Inspector's Guide to OSHA
- ◆ Crane Inspection: Methods & Procedures
- ◆ Crane Boom and Sheave Inspection
- ◆ Wire Rope: Types, Application & Inspection
- ◆ High Strength Structural Bolted Connections
- ◆ Wheel and Tire Inspection
- ◆ Inspection of Equipment Mounts & Alignment
- ◆ Bearing Inspection
- ◆ Electricity, Hydraulics & Pneumatic Systems
- ◆ Application of OSHA and ASME Standards
- ◆ Methods to Ensure OSHA Compliance
- ◆ Use of Inspection Tools
- ◆ Proper Inspection and Reporting Methods

What You Will Receive

- Crane Tech Certification
- Crane Tech Mobile Crane Inspection Manual.
- Daily, Monthly and Annual Inspection Reports.
- Pocket Inspector Reference Cards.
- Riggers Wallet Card.
- Equipment Inspection Wallet Card.
- Inspector's Tools:
 - Sheave Gauges
 - Calipers
 - Steel Rule
 - Inspector's Magnifier
 - Magnetic Probe
 - Pocket Calculator
- Inspector's Attaché To Hold All Inspector Reference Materials.

Mobile Crane Inspector training includes a detailed crane inspection, in-depth coverage of Federal regulations and expert instruction from Federally accredited inspectors.

Persons who have not previously attended a formal course on crane operation may combine crane operation safety and inspector training to form a dynamic learning experience. Course details are provided in Crane Tech's Annual Seminar schedule.

1.800.521.7669

**Training
Available For**

- ◆ Power plants
- ◆ Steel mills
- ◆ Manufacturing
- ◆ Processing industries
- ◆ Wood and Pulp Mills
- ◆ Industrial and Maritime

Overhead Bridge Cranes

Hoists and Gantries

All training complies with
OSHA and ASME.

Overhead Cranes & Hoists

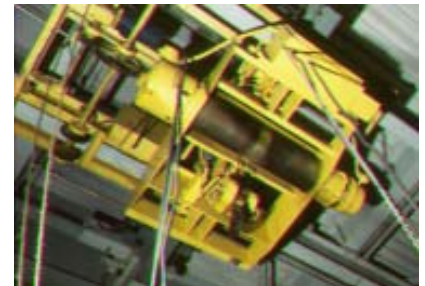


More than pushing a button or pulling a lever, the responsibilities of safe operation and competent inspection may only be correctly performed through proper instruction and hands-on training. Crane Tech instructors have years

of practical, on-the-job, experience and are prepared to ensure your personnel's competency and boost your bottom line.

Training eliminates poor load handling techniques and needless damage to equipment.

Operators and inspectors learn proven safety measures that provides the knowledge and skill required to become a positive influence over safety.



Competent operators and inspectors are capable of recognizing mechanical, electrical and hoisting conditions that may result in equipment damage or loss of load. Training provides immediate and measurable results, and meets OSHA and ASME qualification requirements.



Major Course Topics

- ◆ Safe Operating Techniques
- ◆ Recognition of Deficiencies
- ◆ Load Handling and Load Control
- ◆ Pre-use, Monthly and Annual Inspections
- ◆ Operator and Inspector Qualification
- ◆ Application of OSHA and ASME Standards
- ◆ Wire Rope: Types, Application & Inspection
- ◆ High Strength Structural Bolted Connections
- ◆ Rigging Gear Inspection & Certification
- ◆ Documentation of Equipment Condition

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Rigging

Courses Immediately Available

Riggers who have not had the advantage of qualified training have difficulties with rigging concepts and calculating the forces involved. Mistakes become accidents, and lives become at risk, because many riggers cannot solve what seems an insurmountable problem. Guesswork becomes the norm, and the entire job-site becomes at risk.



There's little doubt that proper rigging techniques, and sound personal judgment, are deciding factors in reduced rigging accidents. But, the process of learning the rigging trade has historically been an informal

procedure, handed down—decades out of date.

Crane Tech rigging programs simplify the concepts and mathematics of this complex subject. Personnel begin working safely, as solutions are found, and previously unknown

forces are considered. Give your personnel the training they require to work smarter using simplified, practical methods.

Personnel working in all trades are called upon to rig loads, and to play a part in "below-the-hook" safety. Enhanced technical skills and practical knowledge combine to provide safety, confidence and productivity.

Major Course Topics

- ◆ Selection of Gear
- ◆ Regulations and Compliance
- ◆ Sling Angle Stress
- ◆ Rigging Charts & Ratings
- ◆ Inspection & Testing
- ◆ Synthetic, Wire & Chain Slings
- ◆ Multiple Leg Slings
- ◆ Effects of Dynamics
- ◆ Center of Gravity
- ◆ Safe Operating Practices
- ◆ Use of Chain Falls
- ◆ Crane Considerations

- ◆ Basic Rigging Skills
- ◆ Craft & Trades Rigging
- ◆ Applied Rigging Practices
- ◆ Advanced Rigging
- ◆ Rigging Inspector Certification

Crane Tech provides complex lift plan programs to help your personnel learn the details of planning complex single and multi-crane lifts.

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Learn from the oldest and most trusted name in material handling training. Results oriented, technical accuracy and dynamic program delivery.

Each Train-the-Trainer course comes complete with extensive hardware samples, course guides, lesson plan, instructor manuals, test masters and training models. A turn-key kit ready for delivery.

Trainer's gain toll-free telephone support for as long as needed.

1.800.521.7669

Train-the-Trainer

Train-the-Trainer programs may be delivered at your facility or during any open enrollment seminar we offer. Crane Tech's proven method for educating "Trainers" ensures a complete understanding of the subject combined with proven training methods.

Trainers have the unique opportunity to participate in the very course they will be presenting. Provided with a detailed lesson plan, each Trainer follows the course while participating in all workshops, test phases and hands-on sessions. Listen to questions from other participants and witness an expert instructor manage a class providing answers and assistance.



Unlike "Trainer" courses which spend little time teaching the core subject, these courses challenge you to become proficient in the subject. You will also learn essential elements of how adults learn, effective presentation methods, use of training media and performance qualification methods.



What You Will Receive

- Crane Tech Certification.
- Detailed lesson plan.
- Pre and post test masters with answer guides.
- Workshops & answer guides.
- Management guide to OSHA.
- Operator Performance Qualification forms.
- Equipment models (where appropriate)
- Instructor's attaché.
- 10 Crane Tech manuals (course specific).
- Hardware samples and tool box (where appropriate).
- Toll-free telephone support.

S*afety Management* provides essential information to form an effective material handling safety program. Training addresses Mobile Cranes, Overhead Cranes, Hoists, Rigging, Aerial Lifts and Forklifts. Designed for Safety Managers, field supervision and those with responsibilities over material handling safety.

Major Course Topics

- ◆ Operator Qualification & Certification
- ◆ Crane Rating Methods
- ◆ Inspection & Testing Requirements
- ◆ Load Handling Techniques
- ◆ How To Survive an OSHA Audit
- ◆ Hoist System Characteristics
- ◆ Recordkeeping Requirements
- ◆ Safe Operation
- ◆ OSHA/ASME Compliance
- ◆ Effective Safety Management



Aerial Lifts, Forklifts & Scaffold

**Programs Geared
for Industry**

Aerial Lift standards require that your personnel meet strict OSHA requirements 1910.67(c)(2)(ii) "Only trained persons shall operate an aerial lift." Crane Tech's Operator and Trainer's course provides instruction necessary to avoid accidents and equipment failures. Participants learn practical methods to ensure safety and equipment reliability.



**Aerial Lift Safety
Train-the-Trainer**

**Forklift Safety
Train-the-Trainer**

**Competent Person
Scaffold Building**



Major Course Topics

- ◆ Operation Safety
- ◆ Manual Controls
- ◆ Fall Protection
- ◆ Inspection & Testing
- ◆ Brake Systems & Operation
- ◆ Failures & Accident Avoidance
- ◆ Control Features
- ◆ Boarding & Exiting
- ◆ Safety Precautions
- ◆ OSHA/ASME Compliance
- ◆ Qualifying Operators
- ◆ Emergency Controls

Forklift training covers the counterbalance, telescopic boom and narrow aisle reach trucks. New OSHA training requirements under 29 CFR Part 1910.178 place stringent new requirements for initial training, refresher training, operator testing and performance evaluations.



Crane Tech's Forklift Operator training includes conventional and construction type forklifts. Trainers receive expert instruction on these subjects and a complete training kit for presentation at their facility. All trainers are qualified through written tests and practical examination.

Major Course Topics

- ◆ Operator Qualification & Certification
- ◆ Stability Triangle
- ◆ Principles of a Fork Lift
- ◆ Load Handling Techniques
- ◆ Proper Fueling (Diesel, LPG, Gasoline)
- ◆ Travel, Transit & Shutdown
- ◆ Load Bearing Components
- ◆ Recordkeeping requirements
- ◆ Safe Operation
- ◆ OSHA/ASME Compliance
- ◆ Performance Evaluations
- ◆ Inspection Requirements

Competent Scaffold Builders learn proper methods of construction, bracing and ground support ensuring safe use, erection and dismantling. Meet OSHA training requirements and help your workforce complete their jobs safely and on-time helping keep you on schedule and budget.

Major Course Topics

- ◆ Understanding Scaffold Types
- ◆ Erection/Dismantling Standards
- ◆ Mud Sills & Ground Support
- ◆ Ladders and Scaffold Access
- ◆ Scaffold Boards & Planking
- ◆ Tagging Methods
- ◆ Fall Protection
- ◆ Builder and User Safety
- ◆ OSHA/ASME Compliance
- ◆ Component Inspection



Scaffold Building provided as on-site may include; Limited Builder for users, Competent Person for those providing inspections and erection/dismantling assistance, and suspended scaffolding.

1.800.521.7669

Equipment Courses

- ◆ Backhoes
 - ◆ Front End Loaders
 - ◆ Skid Steer Loaders
 - ◆ Crawler Dozers
 - ◆ Wheel Dozers
 - ◆ Road Graders
-
- ◆ Trenching and Shoring
Competent Person Training

Earth moving training provides confidence and skill your personnel require to work smarter and more productively.

Earth Moving



Crane Tech's earth moving training programs emphasize accident avoidance through the practice of proven safety procedures. Whether you are operating a front-end loader, dozer, road grader or an excavator the potential for an accident may be just around the corner. Earth

Moving equipment operator training is provided in short efficient sessions, providing the technical knowledge and skill your personnel require to prevent accidents and to work efficiently.



After the technical training Crane Tech Instructors use voice activated microphone/headsets to communicate with trainees on the equipment. This proven approach provides accurate and timely instruction as the trainee is learning various skills.

*I*nspection Forms, Videos, Wallet Cards and More...

Call for a complete list of products or visit our web site at www.cranetech.com

Safety Training Videos

Inspection Reports for all equipment

(Daily, Monthly & Annual)

- ◆ Mobile Cranes
- ◆ Overhead Cranes
- ◆ Overhead Hoists
- ◆ Boom Trucks
- ◆ Wire Rope
- ◆ Slings & Rigging Gear
- ◆ Fork Lifts
- ◆ Aerial Lifts
- ◆ Scaffolding
- ◆ Rigging Gear

Laminated Wallet Cards

- ◆ Riggers Reference
- ◆ Rigging Gear Inspection
- ◆ Mobile Crane Inspection
- ◆ Mobile Crane Hand Signals
- ◆ Overhead Crane Hand Signals

Hand Signal Posters

(available in Decal)

Inspector Tool Kits

Equipment Models for training

Tail Gate Safety MeetingsSM

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Crane Inspection & Certification

**Accredited
Inspection Service**

Compliance with OSHA regulations requires accurate verification of crane safety in all operating environments. Crane Tech is a recognized private agency accredited by the U.S. Department of Labor under 29 CFR Part 1919, for the inspection and certification of cranes. Cranes not regulated by Maritime or specific state laws are inspected in accordance with applicable standards.



You receive an objective and comprehensive inspection. Whether your cranes are working in Maritime, General Industry, or Construction this valuable service provides the assurance you require for safety and compliance.

Crane Tech's inspection procedure is the most detailed in the industry. You can rest assured findings are not inflated to sell additional services or parts you may not need. Crane Tech's inspection service, eliminates the conflict of interest common with companies who inspect and repair cranes. You receive a thorough evaluation of your equipment from an unbiased inspector.



Inspections include all forms, reports and certifications to verify your equipment's condition. To assist your continual compliance efforts, you also receive daily and monthly inspection reports.

Ensure reliability, safety and compliance.

Accredited: U.S. Department of Labor, 29 CFR Part 1919

Our Inspectors Will

- Provide a comprehensive inspection.*
- Conduct operational testing.*
- Provide load testing service.*
- Issue professional detailed reports.*
- Provide a documentation folder containing reports and certifications.*
- Provide after inspection service to help you maintain compliance.*

What You Will Receive

- Crane Condition Report.*
- Recommendations Report.*
- Certification Documents.*
- Certification Decal.*
- Wire Rope Reports.*
- Monthly Inspection Forms.*
- Daily Inspection Forms.*
- Nondestructive Test Report.*

1.800.521.7669

Performance

Helping you maintain a highly qualified professional crew is our primary focus.

Crane Tech's competency based training methods, performance qualification testing, and continuing education services ensures that your personnel are ready to meet their assigned tasks.

Crane Tech's Tampa Training Center is a modern, state-of-the-art, facility designed to provide the most valuable learning environment available. Equipped with computerized projection equipment, digital projection cameras, and advanced audiovisual equipment, participants learn the skills of their trade in a comfortable workshop environment. Hundreds of hardware sample and working cranes enables training



that 'hits the mark', ensuring your personnel have every advantage to build their professional skills and knowledge.

Open Enrollment Seminars are regularly conducted at the Tampa Training Center covering subjects of; Mobile Crane Operation and Inspection, Overhead Cranes,

Rigging, Safety Management, Scaffold Building and Train-the-Trainer courses in Forklifts and Aerial Lifts.

See why so many turn to the Tampa Training Center for their material handling training. World class training in the heart of Tampa Bay.



Crane Tech's Training Center is easily accessible, located in the Tampa Bay area only minutes from Tampa international airport.

***Course offerings are listed under
"Open Enrollment Seminars."***

***Programs Meet OSHA and ASME
Training Requirements!***

Open Enrollment Seminars



Seminar training upgrades your technical expertise and enhances your safety awareness. Whether you have years of experience, or are new to the material handling field, these programs provide a foundation for the concepts essential to understanding the dynamics

and complexities of modern material handling equipment. Learn how common mistakes and misconceptions affect safe operations; why so many authorities point out that the absence of accidents is not a good indicator for job-site safety or proper equipment utilization.

Crane Tech seminars are offered on a variety of equipment types at our Tampa Training Center—a modern state of the art training facility. Students gain valuable technical information and participate in hands-on training during each course.

Programs include OSHA and ASME requirements, presented in a comfortable workshop format, where participants learn from instructors with years of practical experience. Our instructors relate to your operations, providing solutions to your material handling requirements.



Who Should Attend

Equipment Operators
Safety & Loss Control
Inspectors
Test Personnel
Industrial Engineers
Maintenance Personnel
Management and Field Supervision
Training Personnel



For A Training Schedule

Call 1.800.521.7669

or visit our web site

www.cranetech.com

Seminars

Mobile Cranes & Rigging

Applied Rigging Practices

**Overhead Cranes, Hoists
& Rigging**

Mobile Crane Inspector

Overhead Crane Inspector

Safety Management

Aerial Lift Safety

Forklift Safety

**Train-the-Trainer
Courses (T₃)**

Any course may include Train-the-Trainer. Forklift and Aerial Lift Safety are designed and offered as T₃ programs.

How To Register For Courses

Call 1.800.521.7669 and ask to speak with our Registrar. We will send you a complete enrollment package, course outline and travel information.

1.800.521.7669

Pride in our service

Hear what our customers are saying about Crane Tech.

This course is probably the best I have ever attended. The instructor should be commended for his knowledge, experience and teaching ability.

U.S. Foundry

I am writing to you today to express Saudi Aramco's appreciation for the very high quality training material you developed for the Professional Engineering Development Unit. This Inspector training program will ensure that the heavy-lifting equipment used by the Company and its Contractors is being properly maintained and operated. The end result will be the improved protection of life and property. Thanks for a job well done.

Budget & Accountability Analyst, Aramco Services Company

By far the most informative course I have attended. Instructors are very knowledgeable and the presentation was attention holding and in-depth. I highly recommend this course to anyone in the crane and rigging field.

Naval Air Warfare Center

Thanks from our employees for the Crane & Rigging Certification Awareness. It was just what we needed. Your instructor delivered this training very professionally and from the deck plates. It was obvious he knew exactly what he was talking about.

Moon Engineering, Inc.

Training was in-depth and presented in an easily understood way. The instructor brought knowledge which would never be accessible from a book.

Maine Yankee

*Contact Crane Tech for a free
consultation of your training needs.*

*Service And Training Guaranteed
To Exceed Your Expectations.*

Crane Tech
6037 Winthrop Commerce Ave.
Riverview, FL 33578

Toll Free 800.521.7669
Phone 813.248.4800
Fax 813.248.4820
Web Site www.cranetech.com
E-mail cranetech@cranetech.com