Link-Belt®
CRANES

PREFERRED TECHNICIAN TRAINING

CUSTOMER TECHNICIAN TRAINING





Greetings from Link-Belt

Welcome to Link-Belt Training. We are committed to providing quality training experiences.

Our goal is to provide the necessary skills, knowledge and abilities to Link-Belt crane service personnel, so that they can perform their job effectively and efficiently. We provide online training resources and classroom courses with hands-on troubleshooting scenarios.

The dedicated training staff here at Link-Belt strives to ensure that you have the most effective and enjoyable learning experience as possible. Our students can expect a comfortable training atmosphere with our knowledgeable instructional staff, access to modern Link-Belt crane models, quality accommodations and our Kentucky hospitality.

We look forward to seeing you in class and thank you for your interest in Link-Belt training.

Contact Information

Training Coordinator
Phone: (859) 264-6285
Email: JAnderson@linkbelt.com

Link-Belt Cranes
Phone: (859) 263-5200
Address: 2651 Palumbo Dr. Lexington, KY 40509
www.linkbelt.com

Link-Belt Technician Training

The Link-Belt Preferred Technician Training program is provided to meet the needs of technicians who service Link-Belt cranes. Technicians who work for a company that owns at least one Link-Belt crane are eligible to enroll.
Courses available include:

Preferred Technician Training:
- Online Basic Training
  - Electrical
  - Mechanical
  - Hydraulic
  - Crane Nomenclature
  - Lube and Maintenance
  - Crane Safety
  - Crane Rating Manual
  - RCL Navigation
  - Schematic Symbols
  - CANBus
- General Knowledge & Skills
  - HT
  - RT
  - Large RT
  - AT
  - TCC
  - Lattice

Program Fee

There is a one-time administrative fee of $537 per student to enroll in the Preferred Technician Training program. This enrollment fee covers the online training and all of the instructor-led training courses at the factory.

Program Registration

Enrollments into the Preferred Technician training require approval through a Link-Belt Distributor. To enroll contact your local Link-Belt Distributor and provide the following information:

- Technician's Name
- Technician's Email Address
- Company Training Coordinator's Name
- Company Training Coordinator's Email Address

Upon enrollment into the program, students will receive an email with the details on how to begin the Online Training.

Online Training Access

You must be enrolled in the Preferred Training Program to access the Online Training through our Link-Belt Preferred website.

www.Linkbelt.com

1. Click the 'Sign in' button on the upper right side of the main page
2. Sign in with your user name and password
3. Click 'Support,' then 'Training'
4. Click 'Online Training' on the left hand side to access the online training site

Note: Only people who are enrolled in the Preferred Technician Training can see the "Online Training" menu option.

Onsite Course Registration

Once the technician has completed the Online Training, they can register for the instructor-led training held at the Link-Belt factory in Lexington, Kentucky. The course schedule is posted on the Link-Belt Preferred website 'Training' tab.

To register for instructor-led training, a dealer training coordinator will need to complete the online enrollment request form on behalf of the technician.

Courses are confirmed 30 to 45 days in advance. Do not make travel arrangements before the course is confirmed due to the possibility of a cancellation.

Once the course is confirmed, the technician registered for the course and their training coordinator will be emailed a confirmation letter with class and hotel information.

Preferred Technician Training Program

Online Basic Training

Must complete, test-out or show proof of previous training before advancing to instructor-led classes.

Choose 1 or more

- Large RT
- RT
- HT
- AT
- TCC
- Lattice



Online Basic Training

Prerequisite technician training is taught through a series of online courses. These online courses help ensure that every technician attending factory training has the same base of knowledge and is ready for the technical depth of our training courses. Technicians must complete the assigned online learning courses to qualify to register for the instructor-led training sessions at the Link-Belt factory in Lexington, Kentucky.

COURSE DESCRIPTIONS

Electrical

Estimated completion time: 2 hours or Test out

- Ohm's Law
- Wiring and Symbols
- Introduction to Electrical Circuits
- Using a Multimeter

Mechanical

Estimated completion time: 4 hours or Test out

Fundamentals of Mechanics

- Actuators
- Clutches
- Brakes
- Bearings
- Gears
- Belt/Chain Drives
- Couplings

Hydraulics

Estimated completion time: 4 hours or Test out

- Introduction to Hydraulics
- Hydraulic Pumps
- Hydraulic Actuators
- Hydraulic Valves

Crane Nomenclature

Estimated Completion Time: 60 minutes

- Link-Belt Cranes
- Link-Belt Serial Numbers
- Terms for Sections of a Crane
- Boom Types and Components
- Upper Components
- Carrier Components

Link-Belt Cranes General Lube and Maintenance

Estimated Completion Time: 30 minutes

- Link-Belt Crane Operator's Manual General Information
- General Lubrication Information
- Overview of Lubrication and Maintenance Charts

Link-Belt Crane Operating Safety Series

Estimated Completion Time: 90 minutes

- Safety Decals and Captions
- General Safety Overview
- Working Near Power Lines
- Crane Safety
- Luffing Attachment Operation
- Personnel Handling Guidelines

Link-Belt Crane Rating Manual (CRM)

Estimated Completion Time: 30 minutes

- Overview of CRM Notes Section
- Overview of CRM Charts
- Utilizing the CRM Charts

Link-Belt Pulse 2.0 RCL Navigation

Estimated Completion Time: User Decides

- 120HT Example
- TCC-800 Example

Link-Belt Schematic Symbol Assessment

Estimated Completion Time: Under 20 minutes

- Gives the student an understanding of what symbols are used during course instruction and troubleshooting.

Link-Belt CANBus Electronics

Estimated Completion Time: 50 minutes

- What is CANBus?
- CANBus Hardware
- System Working vs Functioning
- Importance of Resistors

Factory Training

Instructor-led training held here at the Link-Belt factory in Lexington, KY provides training on both the telescopic and the lattice cranes.

COURSE DESCRIPTIONS

RT

Class Size: Minimum 4/Maximum 10
Duration: 4 days
Prerequisite: Completion of Online Training
Models Covered: Pulse and Pulse 2.0 cranes

Topics covered include:

- Machine Overview & Set-Up
- Fly Erection
- Hydraulics
- Electrical
- Full Power & Latching Booms
- RCL Navigation
- Troubleshooting

HT

Class Size: Minimum 4/Maximum 10
Duration: 4 days
Prerequisite: Completion of Online Training
Models Covered: Pulse and Pulse 2.0 cranes

Topics covered include:

- Machine Overview & Set-Up
- Fly Erection
- Hydraulics
- Electrical
- Full Power & Latching Booms
- RCL Navigation
- Troubleshooting

TCC

Class Size: Minimum 4/Maximum 10
Duration: 3 days
Prerequisite: Completion of Online Training
Models Covered: TCC-500, 550, 750, 800, 1100, 1200, 1400, 2500

Topics covered include:

- Assembly/Disassembly
- Linde Pump Controllers
- IQAN Engine Display
- Hydraulic Systems
- Electrical Systems
- Troubleshooting and Diagnostics

Large RT

Class Size: Minimum 4/Maximum 10
Duration: 4 days
Prerequisite: Completion of Online Training
Models Covered: RTC-80110 II / 80130 II / 80150 II

Topics covered include:

- Hydrostatic Travel
- Suspension
- Closed Loop Winch Circuits
- Parker IQAN Control systems
- Troubleshooting and Diagnostics

AT

Class Size: Minimum 4/Maximum 10
Duration: 4 days
Prerequisite: Completion of Online Training
Models Covered: 175AT, 225AT, 300AT, ATC-3210, ATC-3275

Topics covered include:

- Hydraulic Suspension/Outriggers
- Rear Steer
- Fly Erection
- Closed Loop Winch Circuits
- Parker IQAN Control Systems
- Troubleshooting and Diagnostics



Factory Training, Cont.

Lattice

Class Size: Minimum 5/Maximum 10
Duration: 4 days
Prerequisite: Successful completion of Online Training
Models Covered: HYLAB, HSL, and V Series lattice cranes

Topics covered include:

- Machine Overview & Set-up
- Machine Assembly/Disassembly
- Boom Assembly/Disassembly
- HSL Hydraulics
- HSL Electrical
- HSL Winch
- HSL Operations and Troubleshooting
- Crane Rating Manual & Lift Concepts

Additional Training

Boom Inspection and Welding Course

Target Audience: Crane Technicians and Welders
Class Size: Minimum 4/Maximum 6
Duration: 4 days
Prerequisite: None
Materials Fee: $325

The Boom Inspection and Welding class is intended to familiarize participants with inspection of telescopic box and formed boom, lattice boom, lattice jib and telescopic fly attachments. Participants are also given the opportunity for hands-on learning of proper welding techniques for lattice boom, jib and/or telescopic fly repair.

This class **does not** provide welding certification.

Topics covered include:

- Boom Repair Manual
- Lattice Boom Inspection
- Telescopic Boom Inspection
- Lattice Boom Repair/Welding

Additional Training, Cont.

AT Operator/Technician Orientation

Target Audience: Crane Owners/Crane Operators
Class Size: Minimum 5/Maximum 10
Duration: 2-3 days
Prerequisite: Company must be receiving an AT.

This AT class is intended to familiarize operators, oilers and technicians with carrier and upper operations and practices that are unique to Link-Belt AT cranes. At the end of the course students should be able to properly set the crane up for a job, break the crane down and prepare it for travel after a job.

Topics covered include:

- Intarder Operation
- Suspension Operation
- Rear Steer Operation
- Outrigger Operation
- Crane Rating Manual Familiarization
- Latching Boom Familiarization
- Pulse Familiarization
- Electronic Crane Controls
- Fly Erection
- Emergency Mode Operation
- Engine Regeneration



Travel and Lodging

Traveling to Link-Belt

DRIVING

Link-Belt Cranes is located in Lexington, Kentucky. Drivers can get to Lexington via Interstate 75 from the north or south and Interstate 64 from the west or east.

FLYING

The Blue Grass Airport is located within Lexington and is serviced by Allegiant Air, American Airlines, Delta Air Lines, United Airlines and US Airways. For more information about the Blue Grass Airport please visit http://www.bluegrassairport.com.

LODGING IN LEXINGTON

Link-Belt has partnered with a local hotel to provide rooms for our students. The student's employer is responsible for the hotel cost. Link-Belt will contact the hotel to reserve rooms and send the confirmation number to each student.

TRANSPORTATION

Students are responsible for their own transportation while they are attending training. Link-Belt will provide a shuttle service for the class on evenings when hospitality events are scheduled.

Link-Belt CRANES

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