INCREASE YOUR PRODUCTIVITY WITH TECHNICAL CRANE TRAINING
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PREFACE

Please Contact Us

In this brochure, you will find details of the courses available within the Terex North America customer training course program.

If you have any further questions about this NA customer training course program or if you want to order one of our training courses, please do not hesitate to contact us.

www.terex-training.com

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OUR MISSION

To offer our students, the most complete crane training in our industry.

To provide consistent, structured, and accurate world class training to our distributors, customers and team members.

To ensure globally, progressive learning and understanding of Terex Cranes to properly operate, maintain and troubleshoot our customers' investment.

TRAINING

Commitment to Excellence

Terex Technical Training can provide results to your operators, technicians and all other service personnel.

The Technical Training Group in Wilmington, NC. USA offers the best training in the industry. Our instructors are competent in course building, instructing, manufacturing knowledge and crane service. Our instructors are well diverse in their crane knowledge.

From operation, troubleshooting and set up, our instructors can provide you with the complete knowledge for your safety and satisfaction. Our learning approach will guide your students through the needed skill sets for all brands to maximize your crane uptime.

Our Technical Training Group can provide the most comprehensive training session with final course results. You will be able to see your student's skill sets and with our training programs, allow your students to learn new products with the same consistent training.

Safety, productivity, consistency, confidence and value increase with crane knowledge. Invest today for your future.

Location

Terex USA, LLC
3147 South 17th St., Suite 100
Wilmington, NC. 28412
E-LEARNING

DEVELOPING NEW TRAINING POSSIBILITIES TO MEET YOUR DEMAND

Terex Cranes E-Learning delivers a broad range of online training courses designed to help you build a more competent, qualified, and efficient workforce.

Imagine a training program that delivers powerful training right to your computer – the right content in the right context, comprehensive assessments, and the latest tools to measure performance.

Our interface gives you more ways than ever to meet your industrial training needs.

PROVEN

Our courseware is proven by the industry. It is updated and reviewed regularly by content subject matter experts so you can rely on its accuracy and relevance.

ENGAGING

Our training features 3D simulations, course narrations, a virtual guide, testing, and quizzes to promote learning retention and use on the job.

EASY-TO-USE

Our training concept is simple: We host it; you control it! Your employees take courses that are self-paced, guided, modular, and the right length to provide them with exactly the training they need.

EXCITING AND INTERACTIVE TO KEEP YOU INVOLVED

COURSE OFFERINGS

- TELT- 010 Terex Mobile Hydraulics - TELT-011 Hidráulica Móvil (Métrico)
- TELT- 020 Terex Mobile Electric - TELT-021 Electricidad Para Sistemas Móviles
- TELT- 030 Terex Pneumatics
- TELT- 040 Terex Mechanical
- TELT- 050 Terex Diesel Engines
- TELT- 060 Terex AC/DC Motors and Drives
- TELT- 070 Terex PLC Fundamentals
Prerequisites:
- Course: None
- Experience / Skill: 6 months / 1 Year of hydraulics exposure

Cost: $150

Course Summary:
Our Mobile Hydraulic course delivers an interactive training experience designed to help you understand the fundamental concepts of hydraulic systems of mobile equipment.

Learn the various physics laws related to hydraulic power, as well as the hydraulic components and circuits associated with these systems. Study the basics of hydrostatic transmissions, valves, and maintenance systems common to almost all combustion engine vehicles.

You will also study the symbols and language of schematics, helping you know your hydraulic systems inside and out.

Completion Benefits:
Fluid Power Physics: Build your foundation for the course by reviewing the basic physics principles that govern fluid power: Horsepower, Torque, Heat, Flow, Pressure Drop, Velocity, and Viscosity.

Pumps: View in 3D various types of hydraulic pumps, and learn more about gear, vane, and piston pumps: their differences and similarities, and proper application.

Actuators: Learn how hydraulic actuators convert hydraulic horsepower back into mechanical horsepower and other valuable information about how they work inside your system.

Pressure Control: Understand the basics behind force manipulation using control valves, the two basic designs, and their operating principles.

Directional Control: Discover how directional control valves determine hydraulic system design and their importance in these systems, and see how these valves operate.

Modular Control: Know the how’s and why’s of modular valves and how they enhance system design and troubleshooting.

Schematics: Identify the basic symbols of a hydraulic schematic and learn to read the layout of systems on paper or computer.
Prerequisites:

Course: None

Experience / Skill: 6 months / 1 Year of electrical exposure

Cost: $150

Course Summary:

Our Mobile Electrical course delivers an interactive training experience designed to help you understand the fundamental concepts of electrical systems of mobile equipment.

Learn the various physics laws related to electrical power, as well as the basic terminology and formulas behind electrical systems.

Study the basic electrical system common to almost all combustion engine vehicles, and how the battery, charging, and starting systems function and interact with each other. Know the basics of digital multi-meters and how to use them for various electrical tests.

Completion Benefits:

Electrical Fundamentals: Know the basic physics laws and terminology that govern the operation of electrical systems.

Circuit Fundamentals: Recognize the sections of a circuit, its components and functions, as well as the laws governing voltage and current.

Circuit Analysis: Understand the impact of circuit components on electrical systems and the techniques used to analyze the effects of in various configurations.

Basic Magnetism: Learn about the different kinds of magnets, how magnetic fields interact with each other, and how the properties of magnetic materials affect magnetic fields.

Circuit Components: Understand the various components of circuits, their flow, and how they convert electrical energy into other forms of energy.

Electrical Testers: Gauge the effects of technology on electrical testing and how it has improved our ability to measure and work with electronics and electricity.

Charging and Starting Systems: Understand how lead-acid batteries operate and how the charging and starting systems work in most combustion engine vehicles.
Prerequisites:

Course: None
Experience / Skill: 6 months / 1 Year of pneumatic exposure

Cost: $150

Course Summary:

Our Pneumatics course focuses on the basic physics laws, schematics, and systems design associated with pneumatic systems and fluid power.

Learn about various pneumatic compressors, air dryers, actuators, and airline conductors.

See how air is used as a medium to transfer energy through vacuum, distribution, and directional controls. Study air preparation, distribution, and accessories used to make pneumatic systems operate.

Understand the symbols represented in pneumatic schematics and how to read them.

Completion Benefits:

Basic Physics: Build a foundation for the course based on basic physics principles that govern mechanical power transmissions—energy, torque, horsepower and more.

Compressors: Learn terminology associated with compressors, see how compressors operate, and become familiar with the components that ensure safe and efficient operation of systems.

Air Dryers: Discover the various ways air is dried to help preserve the metal parts exposed to air pressure.

Air Preparation: Understand the steps of final preparation associated with filtering, regulating, and lubricating air before use in hydraulic systems, and when these techniques are necessary.

Control Valves: View the designs, operation techniques, port layouts, positions, and pressure configurations that help make pneumatic systems operate.

Actuators: Learn the interface components that convert pneumatic energy into mechanical energy and the motions used by actuators in pneumatic systems.

Airline Conductors: Learn the types of airline conductors and how they are best used to carry air to all the various components in the pneumatic circuit.

Vacuum: View demonstrations on how vacuum is created to help your system work.

Schematics: Identify the basic symbols of a pneumatic schematic.
Prerequisites:

Course: None
Experience / Skill: 6 months / 1 Year of mechanical exposure

Cost: $150

Course Summary:

Our mechanical course gives you a broad-based training of the basic physics laws, schematics, and systems design associated with mechanical power transmissions.

The course delivers an interactive training experience designed to help understand the various components found in a typical mechanical system and how these components function and interact with each other.

Learn about topics, such as linear actuators, clutches, brakes, bearings, gears, drives, and more.

Study how these mechanical systems work and how to troubleshoot them.

Completion Benefits:

Basic Physics: Build a foundation for the course based on basic physics principles that govern mechanical power transmissions—energy, torque, horsepower, and more.

Linear Actuators: Understand how linear actuators convert rotational motion into linear motion and the operations that surround this conversion.

Clutches: Learn about clutches and their components, differences and similarities, capabilities, and proper application within mechanical power transmission systems.

Clutch/Brake Systems: Understand the different types of combinations that make up your clutch/brake systems.

Bearings: Understand the purpose and terminology of bearings and where they are used within mechanical power transmissions.

Gears: Know the different kinds of gears, how they operate, and where they are best used to transmit power.

Drives: Study the different types of belt and chain drives, how they are designed, and their basic theory of operation.

Couplings: Learn usage and applications of couplings and the different types, functions, and features of these critical components of mechanical power transmissions.
E-LEARNING COURSES

TELT-050 TEREX DIESEL ENGINES

Prerequisites:

Course: None
Experience / Skill: 6 months / 1 Year of diesel engine exposure

Cost: $150

Course Summary:

Students begin by learning combustion fundamentals and a brief history of diesel engines. They identify the various components of a typical diesel engine and how these components function and interact with each other.

Students also examine fuel pumps, fuel injectors, and intake and exhaust systems, and study the components of the diesel fuel system. They then study engine lubrication and analyze how engine-cooling systems work.

Completion Benefits:

Combustion Fundamentals: This course provides an overview of the history of diesel engines. Learn to differentiate between the two-stroke and four-stroke engine. Master the basic terminology connected with engine output such as energy, force, work, torque, and horsepower.

Engine Components: Differentiate between direct and indirect injection engines. Identify the components and functions of the cylinder head, the cylinder block, and the engine. Describe the process of engine combustion and how a diesel engine turns latent chemical energy into mechanical power.

Air Intake and Exhaust: Engine performance is dependent upon the quality of combustion, which in turn is dependent upon the quality of air and fuel. Diesel engines are designed around an intake and exhaust system. Discover how to regulate these systems for efficient engine performance.

Diesel Fuel Systems: Study the functions of the components of the diesel fuel system. Explore fuel storage and handling issues as well as common alternative fuels.

Fuel System Components: Further investigate fuel system components, such as the variety of fuel pumps, fuel injectors, and governors.

Engine Lubrication: Study the importance of oil in a working engine. Learn the varied and vital functions oil performs in an internal combustion engine, beyond simply lubrication.

Engine Cooling: Discover how a cooling system controls engine temperature to prevent engine failure due to overheating. Study the components and functions of an engine cooling system.

Electrical System: Learn how the battery, charging, and starting systems integrate with the fuel system to supply power to a vehicle.
Prerequisites:

Course: None
Experience / Skill: 6 months / 1 Year of tower crane exposure

Cost: $150

Course Summary:

AC/DC Motors & Drives is designed to help trainees understand how electrical motors and drives work with each other and other systems. Trainees also learn how to identify and calculate the speed, torque, and horsepower of a motor, how motors and drives operate, how to identify the hardware and firmware involved in motor operation, and safety considerations associated with operating electromechanical systems.

Completion Benefits:

System Components: Study the basic terminology and principles involved with motors and drives to develop a foundation for the other principles presented in this course.

AC/DC Motors: Understand the torque-related principles of AC motors and the magnetism related principles of DC motors and how the laws of magnetism, speed, horsepower, and torque produce power.

Selecting a Replacement Motor: Interpret a motor’s nameplate and understand the nameplate data so you can find a replacement motor or an acceptable substitute.

Line Protection and Filtering: Examine the reasons behind understanding fuses and filtering devices: Protect personnel from electrical dangers
Operate an electrical code compliant system
Extend the life of equipment through proper fusing and filtering

Electrostatic Concepts: Avoid electrostatic discharges by understanding what causes them and what components they affect.

AC/DC Drives Hardware: Consider the difference between AC and DC drives, and learn more about the functions, components, and firmware of AC drives.

AC and DC Braking: Stop a motor using three different methods, learn the advantages and disadvantages of each, and explore the two main electrical braking methods and how they relate to AC or DC drives.

Testing the System: Study the five different electrical measuring tools that can be used to help diagnose problems in AC/DC drives.

Checking the System: Master the pre-power and power-on checks that will locate bad alignment and bad wiring in a drive.

Using the HIM with the Drive: Monitor the parameters of a drive that will help you program, maintain, and troubleshoot an AC/DC drive using a Human Interface Module, commonly call the H-I-M or HIM.

Selecting a Drive: Analyze the applications of variable speed and motion control, matching the proper drive with the proper application.
E-LEARNING COURSES

TELT- 070 TEREX PLC FUNDAMENTALS

Prerequisites:

Course: None

Experience / Skill: 6 months / 1 Year of crane exposure

Cost: $150

Course Summary:

In this course, students explore the hardware, firmware, and software that make a PLC function.

The course also examines appropriate PLCs to use for specific purposes, how to connect devices to a PLC, and how to read and write basic PLC ladder-logic software programs.

By understanding how to connect to PLC hardware and function in various control systems, students build strong foundational knowledge of automation control and components.

Completion Benefits:

What is a PLC: Learn what PLCs are, what they can do, and how they differ from other computers.

PLC Hardware: Study about the two main types—fixed and modular PLC Numbering Systems - Discover the math functions related to PLCs.

How a PLC is Structured: See the different sections of PLC systems and learn how they store data, memory processes and data operations.

How to Program a PLC: Master the language of PLCs using graphical images and learn how to upload to and download from a PLC.

Devices Connected: Learn how to properly connect your controller to another device to a PLC.

How to Use Timers: Link your PLC process to your production time, and control when operations happen and how long they proceed.

How to Use Counters: Tally the quantity of your automated processes with PLC counters.
FACTORY COURSES

TEREX IS THE COMPLETE TRAINING PACKAGE FOR YOUR SERVICE TECHNICIANS OPERATORS.

The factory courses offer in-depth instructional learning with hands on experience like no other. Your student will receive documentation and student course information that is clearly written and understandable. The hands on experience with simulators and work benches will reinforce the classroom study. The Terex training facility is a great place to send your student to further their knowledge. The facility will soon be expanding to continue to add to the Terex experience.

Learn more at: http://www.terex-training.com/about.aspx

COURSE OFFERINGS

TBTT-001 Boom Truck
TMTT-001 Mobile Telescopic Apprentice Course - COMING IN 2018
TMTT-002 Mobile Telescopic Legacy Course
TMTT-003 Mobile Telescopic - S-PACE
TMTT-004 Rough Terrain Actica
RT 90 Specialized Course
THCT-001 Hydraulic Crawler HC Legacy Machines
TTCT-001 Terex Tower Crane SK Legacy (InterControl PLC)
TTCT-002 Terex Tower Crane CTT Legacy (CTT 331)
FACTORY COURSES

TBTT-001 BOOM TRUCK

Prerequisites:

Course: Terex E-Learning Hydraulic, Electrical (recommended Mechanical and Pneumatic)

Experience / Skill: 6 months / 2 Years of crane exposure

Required equipment: Laptop

Cost: $1550 per student

Cost includes lodging, lunch.

Duration: 5 days

M-Th 8 am - 4 pm
Fri 8 am - 2 pm

Location: Wilmington, NC

Course Summary:

This course will help your technicians to completely understand the BT 3870, BT 28106, BT 4792, BT 70100 generations of boom truck cranes. This program assumes some basic service and operational knowledge of Terex crane systems. We start the course with an in-depth review of crane terminology and technology so the students can relate to a crane's individual components and systems.

The Crossover Series will also be discussed in this course. Students will be exposed to how load charts are constructed and how to properly read and interpret them. In depth instruction will be given on hydraulic and electrical systems and interconnectivity between them. Load moment indicating systems operation and function will be covered with an emphasis on proper use, programming, and how the system functions.

The hands-on sessions using our state of the art benches, will allow the students to experience hydraulically and electrically how a Terex crane functions. By individual circuit breakdown, this will give students a working knowledge of a fully functioning Terex crane.

Course Topics:

• Homework
• Classroom Assessments
• Crane terminology
• Proper safety and set-up
• Final test
• Hydraulic circuit understanding
• Electrical circuit understanding
• LMI programming
TMTT-001 MOBILE TELESCOPIC APPRENTICE COURSE

Prerequisites:
Course: None
Experience / Skill: none

Cost: $700 per student
Cost includes lodging, lunch.

Duration: 3 days
T-Th 8 am - 4:30 pm

Location: Wilmington, NC

Course Summary:
This course will help your technicians who are new to rough terrain cranes understand the functionality of the systems, components of these machines, and prepare them for the advanced technical training courses.

This program assumes no basic service and operational knowledge of Terex crane systems. We start the course with an in-depth review of crane terminology and technology so the students can relate to a crane's individual components and systems.

We then direct our attention to the legacy generation systems that use the Greer with OEM technology looking at the control logic structures.

Next we will look at the following generation hydraulic system and finally the most current ACTIA system. A service technician will be exposed in the study of pneumatic, hydraulic, and electrical systems, and reading of their related schematic prints. These will give the student a working knowledge of the fully functioning rough terrain cranes as it has evolved from the older technologies.

Students will be exposed to how load charts are constructed and how to properly read and interpret them. Load moment indicating systems operation and function will be covered with an emphasis on proper use, programming, and how the system functions.

Course Topics:
- Crane terminology
- Major components
- System functionalities
- Proper crane setup and safety
- LMI familiarity
- Progression of control technologies
- Configurations
- Hydraulic circuit understanding
- Electrical circuit understanding
- Pneumatic schematic familiarity
FACTORY COURSES

TMTT-002 MOBILE TELESCOPIC LEGACY COURSE

Prerequisites:

Course: Terex E-Learning Hydraulic, Electrical (recommended Mechanical and Pneumatic)

Experience / Skill: 1-2 years

Required equipment: Laptop

Cost: $1550 per student

Cost includes lodging, lunch.

Course Topics:

- Crane terminology
- Major components
- System functionalities
- Proper crane setup and safety
- LMI familiarity
- Progression of control technologies
- Configurations
- Hydraulic circuit understanding
- Electrical circuit understanding
- Pneumatic schematic familiarity

Duration: 5 days

M-Thu 8 am - 4 pm

Fri 8 am - 2 pm

Location: Wilmington, NC

Course Summary:

This course will help your technicians to completely understand the RT 230-1, RT 555-1, RT 665, RT 780, and RT 1120. This program assumes basic service and operational knowledge of Terex crane systems. We start the course with an in-depth review of crane terminology and technology so the students can relate to cranes’ individual components and systems.

Students will be exposed to how load charts are constructed and how to properly read and interpret them. Load moment indicating systems operation and function will be covered with an emphasis on proper use, programming, and how the system functions.

The program then introduces the student to CAN-Bus technology and how it interacts with a crane computer system that helps to diagnosis errors, output controllability, data exchange, and interaction with the LMI operating system.
TMTT-003 MOBILE TELESCOPIC - S-PACE

Prerequisites:

- Course: Terex E-Learning Hydraulic, Electrical (recommended Mechanical and Pneumatic)
- Experience / Skill: 1-2 years
- Required equipment: Laptop

Cost: $1550 per student

- Cost includes lodging, lunch.

Duration: 5 days

- M-Th 8 am - 4 pm
- Fri 8 am - 2 pm

Location: Wilmington, NC

Course Topics:

- Crane terminology
- Major components
- System functionalities
- Proper crane setup and safety
- LMI familiarity
- Progression of control technologies
- Configurations
- Hydraulic circuit understanding
- Electrical circuit understanding
- Pneumatic schematic familiarity

Course Summary:

This course will help your technicians to completely understand the RT 670, RT 780, Quadstar 1100, and RT 130. This program assumes basic service and operational knowledge of Terex crane systems. We start the course with an in-depth review of crane terminology and technology so the students can relate to cranes' individual components and systems. Students will be exposed to how load charts are constructed and how to properly read and interpret them. Load moment indicating systems operation and function will be covered with an emphasis on proper use, programming, and how the system functions.

The program then introduces the student to CAN-Bus technology and how it interacts with a crane computer system that helps to diagnosis errors, output controllability, data exchange, and Incorporating the hydraulic and electrical benches, will allow the students to experience the simultaneous action between hydraulics and electric on Terex cranes. By individual circuit breakdown, this will give students a working knowledge of a fully functioning Terex crane.
FACTORY COURSES

TMTT-004 ROUGH TERRAIN ACTIA

Prerequisites:
Course: Terex E-Learning Hydraulic, Electrical (recommended Mechanical and Pneumatic)
Experience / Skill: 1-2 years
Required equipment: Laptop

Cost: $1550 per student
Cost includes lodging, lunch.

Duration: 5 days
M-Th 8 am - 4:30 pm
Fri 8 am - 2 pm

Location: Wilmington, NC

Course Summary:
This course will introduce the newest technology of the Terex cranes. The technicians will go in depth on the understanding of the new RT 670, RT 780, Quadstar 1100 and RT 130. This program assumes basic service and operational knowledge of Terex crane systems. We start the course with an in-depth review of crane terminology and technology so the students can relate to cranes’ individual components and systems. Students will be exposed to how load charts are constructed and how to properly read and interpret them. Load moment indicating systems operation and function will be covered with an emphasis on proper use, programming, and how the system functions.

The program then introduces the student to CAN-Bus technology incorporated into the IC-1 load moment indicator that will be used on this generation of cranes and how it interacts with the crane systems. The technicians will learn how the IC-1 helps to diagnosis errors, output controllability, and data exchange.

The students will be required to conduct test procedures to troubleshoot and repair problems induced on their machine. A group discussion will be conducted to cover proper troubleshooting techniques utilizing the hydraulic and electrical schematics.

Course Topics:
• Crane terminology
• Major components
• System functionalities
• Proper crane setup and safety
• LMI familiarity
• Progression of control technologies
• Configurations
• Hydraulic circuit understanding
• Electrical circuit understanding
• Pneumatic schematic familiarity
RT 90 SPECIALIZED COURSE

Prerequisites:

Course: Terex E-Learning Hydraulic, Electrical (recommended Mechanical and Pneumatic)

Experience / Skill: 1-2 years

Required equipment: Laptop

Cost: $1550 per student
Cost includes lodging, lunch.

Course Topics:

- Crane terminology
- Major components
- System functionalities
- Proper crane setup and safety
- LMI familiarity
- Progression of control technologies
- Configurations
- Hydraulic circuit understanding
- Electrical circuit understanding
- Pneumatic schematic familiarity

Duration: 5 days
M-Th 8 am - 4:30 pm
Fri 8 am - 2 pm

Location: Wilmington, NC

Course Summary:

This course will help your technicians to completely understand the RT 90 / RT 100US. This program assumes basic service and operational knowledge of Terex crane systems. We start the course with an in-depth review of crane terminology and technology so the students can relate to cranes’ individual components and systems.

Students will be exposed to how load charts are constructed and how to properly read and interpret them. Load moment indicating systems operation and function will be covered with an emphasis on proper use, programming, and how the system functions.

The program then introduces the student to CAN-Bus technology incorporated into the IC-1 load moment indicator that will be used on this generation of cranes and how it interacts with the crane systems. The technicians will learn how the IC-1 helps to diagnosis errors, output controllability, and data exchange.

The students will be required to conduct test procedures to troubleshoot and repair problems induced on their machine. A group discussion will be conducted to cover proper troubleshooting techniques utilizing the hydraulic and electrical schematics.
FACTORY COURSES

THCT-001 HYDRAULIC CRAWLER HC LEGACY MACHINES

Prerequisites:

Course: Terex E-Learning Hydraulic, Electrical (recommended Mechanical and Pneumatic)

Experience / Skill: 1-2 years

Required equipment: Laptop

Cost: $1550 per student

Cost includes lodging, lunch.

Course Topics:

- Homework
- Classroom Assessments
- Final test
- Crane terminology
- Proper crane setup and safety
- Hydraulic circuit understanding
- Electrical circuit understanding
- LMI programming
- Mobile crane safety

Duration: 5 days

M-Th 8 am - 4:30 pm

Fri 8 am - 2 pm

Location: Wilmington, NC

Course Summary:

This is the first level of this series, the course showcases HC cranes up to 275 tons and covers all functions, mechanical, electrical, hydraulic, maintenance, adjustments, LMI, set-up.

Topics Covered

Review the functions (hydraulic & electrical), maintenance of the operating controls, main drive (engine, pumps), swing, propel, hoist, counterweight and booming systems. Also included: interpretation of load charts, basic boom configuration, and crane assembly of each model.

Troubleshooting Section

Start circuit, operation lock circuit, A2B, hoist auto & freefall circuits, boom kickout circuits, unload circuits, problems normally encountered during operation. Setup and calibration of LMI.
FACTORY COURSES

TTCT-001 TEREX TOWER CRANE SK LEGACY (INTERCONTROL PLC)

Prerequisites:
- Course: Terex E-Learning AC/DC Drives & Motors
- Experience / Skill: 1-2 years
- Required equipment: Laptop

Cost: $1550 per student
- Cost includes lodging, lunch.

Duration: 5 days
- M-Th 8 am - 4:30 pm
- Fri 8 am - 2 pm

Location: Wilmington, NC

Course Summary:
This course will help your technicians to have a basic understanding of the entire SK product line ranging from the SK 315, SK 405, SK 415 and SK 575 tower cranes. This program assumes no basic service and operational knowledge of Terex tower crane systems. Job site safety in relation to tower cranes is covered to ensure the students are aware of potential hazards present on the job site. We begin with the basic components which make up a tower crane and their functions. Once the basics have been covered we move on to the information contained in the crane data sheet such as the load chart, foundation types and component specifications. This will lead into a more in-depth discussion of crane terminology and technology so the students can relate to cranes' individual components and systems.

Next we look at the process of erecting a tower crane from the foundation all the way through commissioning. This includes the interaction of the different components within the electrical control system from the PLC through the electrical cabinets, operator's display, limit switches, relays and drive controls. These individual component functionalities will be discussed and the student will learn the role each one plays in the operation of a tower crane. Electrical schematic symbols and circuit functionality will also be covered. Maintenance schedules concerning major components (hoisting, slewing and traveling) are covered to ensure that the student is aware of the importance of maintenance and can recognize potential problem areas while in the field.

Course Topics:
- Homework
- Classroom Assessments
- Final test
- Crane terminology
- Proper safety and set-up
- Hydraulic circuit understanding
- Electrical circuit understanding
- LMI programming
TTCT-002 TEREX TOWER CRANE CTT LEGACY (CTT 331)

Prerequisites:
- Course: Terex E-Learning AC/DC Drives & Motors
- Experience / Skill: 1-2 years
- Required equipment: Laptop

Cost: $1550 per student
- Cost includes lodging, lunch.

Duration: 5 days
- M-Th 8 am - 4:30 pm
- Fri 8 am - 2 pm

Location: Wilmington, NC

Course Summary:
This program assumes no basic service and operational knowledge of Terex tower crane systems. This course is based on the CTT 331-16 but applies to the CCT 561 as well. Job site safety in relation to tower cranes is covered to ensure the students are aware of potential hazards present on the job site. Once the basics have been covered we move on to the information contained in the crane data sheet such as the load chart, foundation types and component specifications. This will lead into a more in-depth discussion of crane terminology and technology so the students can relate to a cranes’ individual components and systems.

Next we look at the process of erecting a tower crane from the foundation through commissioning. This includes the interaction of the different components within the electrical control system from the PLC’s through the electrical cabinets, operator’s display, limit switches, relays and drive controls. These individual component functionality will be discussed and the student will learn the role each one plays in the operation of a tower crane. Electrical schematic symbols and circuit functionality will also be covered.

Maintenance schedules concerning major components (hoisting, slewing and traveling) are covered to ensure that the student is aware of the importance of maintenance and can recognize potential problem areas while in the field.

Course Topics:
- Pre-test
- Homework
- Classroom Assessments
- Final test
- Crane components and terminology
- Load chart interpretation
- Proper safety and set-up of a tower crane
- Electrical component and circuit functionality
- Operator display functionality and screen navigation
CUSTOM ONSITE TRAINING

DESIGNED TO MEET YOUR NEEDS

SCOPE

We offer the most comprehensive and complete training at your location because the training content is customized to your immediate needs.

Our instructors and developers will bring a different type of training to your students. Allowing them to understand our products at a much easier and faster pace because the content will be based on your machines.

Training at your location can either be operator, maintenance and technical troubleshooting.

CONTENT

MACHINE SPECIFIC

Operators: These courses will include proper set-up and safety, capacity charts, ground bearing charts, proper LMI operation and set-up, daily maintenance, and all other special features that an operator must know.

Technicians: These courses will include proper set-up and safety. Understanding all circuit and systems, LMI circuits, troubleshooting, and general maintenance.

DEVELOPMENT TIME

Depending on the complexity of the machine, the number of the machines and whether it would be operator or technician training, the development time could be as many as 8-10 weeks. Once we have determined your needs and have looked at our schedule, we would be able to give you a better idea of the development time.

TRAINING COST

The cost of the course would be $1,100.00 a day plus all instructors’ travel expenses (airfare, lodging, meals and ground transportation). A better understanding of the training cost can be obtained once we have received your confirmation.

CONFIRMATION

Once we have received your payment information (purchase order number or credit card) we will give you a better idea of the training cost and possible training dates.

If you have an Internet connection, you can click on the “web site” button below and fill the form out online and then click on the “submit” button on the Terex Training web page.

COURSE TIME

The course length will be determined by: type of course, complexity of machine, number of students, and the percentage of training time (classroom and/or practical).