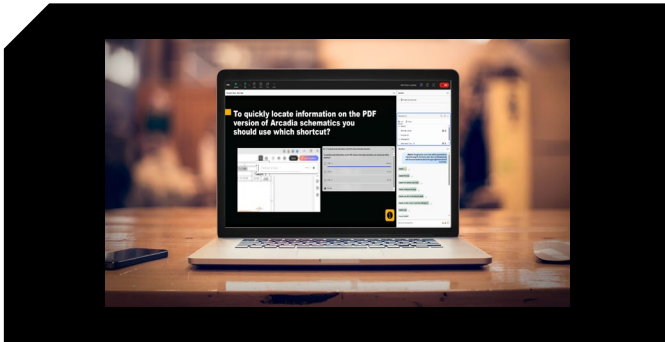




# VIRTUAL MAINTENANCE TRAINING OVERVIEW

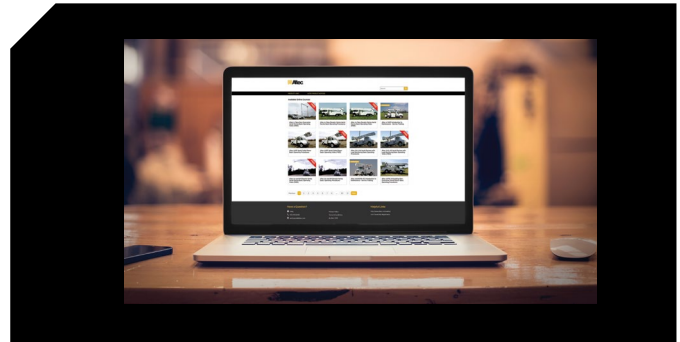
## Overview

Interactive maintenance training webinars, eCourses and How To videos are available to help technicians learn virtually about preventive maintenance, hydraulic, electrical, and mechanical systems in addition to troubleshooting and other processes. After signing up, participants can access their upcoming courses, completed courses and training records.



### Interactive Webinars

Interactive webinars are facilitated using a web-based virtual webinar platform, virtual learning tools, handouts and real-time instruction. Interactivity and participation are included and encouraged throughout the training. Choose a topic, a series and/or available unit training.



### Maintenance eCourses and How To Videos

Technicians can navigate through training on unit systems and components at their own pace 24/7 with eCourses.

Short How To videos allow technicians to see a task or process when they need know.



### Sign Up

Select from the virtual training options and contact us to sign up.

Email: [service.training@altec.com](mailto:service.training@altec.com) or call (816) 901-4894 to learn more, schedule training or request training cost estimates.



The 60-minute interactive webinar sessions use virtual learning tools, handouts and real-time instruction. These webinars are great as introductory training for new hires or as refresher training throughout the year. Courses are \$125 per participant link.

After registering, you should receive an email. You will be able to access the webinar at the scheduled time by clicking on a provided hyperlink in your email. Log in a few minutes early. The meeting will open 10 minutes before the start time to get everyone used to interacting with the virtual tools.

## Frequently Asked Questions

### **Q What am I expected to do during this training?**

**A** You will be asked to engage with the course content and the trainer throughout the session. This is done using audio, webcam, chat, polls, whiteboards and other virtual tools. There is also time at the end for questions and answers.

### **Q What software do I need?**

**A** You won't need to download software or applications. You will simply click a provided hyperlink to launch the session within your internet browser.

### **Q What equipment will I need?**

**A** You will need a computer or electronic device with a stable internet connection, a webcam (usually built into the device), and a headset (or headphones with a microphone on it).

### **Q Do I have to take webinars in series order? For example, can I take Basic Hydraulics 3 before Basic Hydraulics 1?**

**A** It's highly recommended that you take courses in series order because the courses are designed to build on each other. Most Week 2 webinar topics build upon Week 1 webinar concepts.

### **Q Can I request a webinar for just my technicians?**

**A** Absolutely. Time slots for customer requests are set aside throughout the year. Please limit your requests to the list of current offerings, watching for more topics should they become available. Cost is \$125 per participant for a 60-minute session. A minimum of six people need to attend. The recommended maximum class size is 20 participants.

### **Q How do I sign up for the webinars?**

**A** You can sign up for individual webinars or a webinar series and other courses by contacting the Altec Service Training Department by email at [service.training@altec.com](mailto:service.training@altec.com) or by calling (816) 901-4894.



# 2027 INTERACTIVE WEBINARS

## MAINTENANCE TRAINING

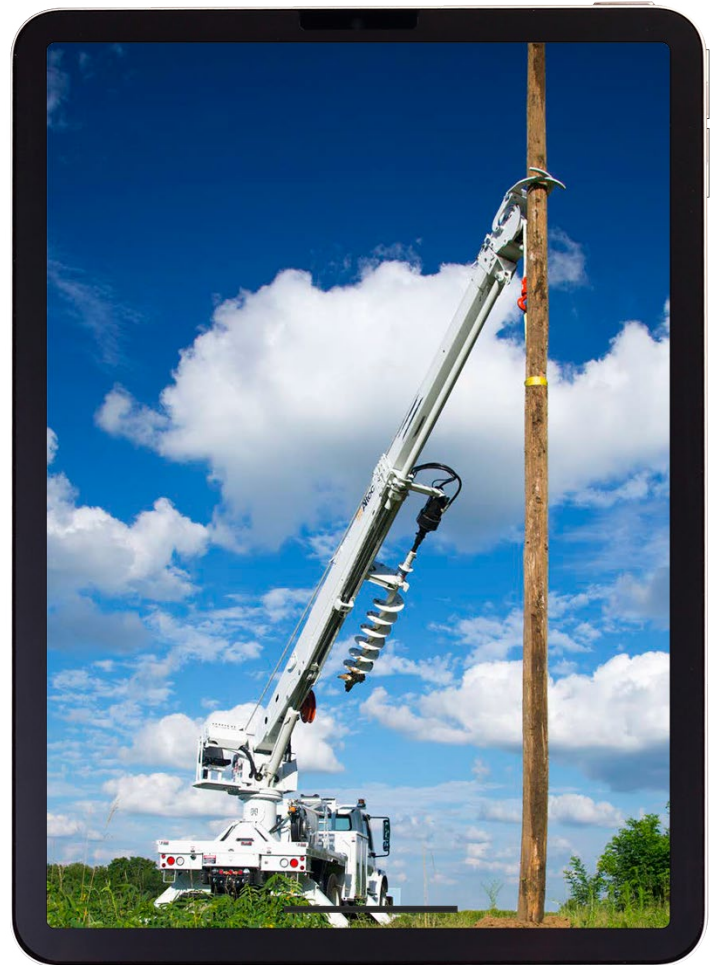
### UNIT SPECIFIC WEBINARS



These interactive unit specific courses have been tailored to be facilitated using a web-based virtual webinar platform, handouts and real-time instruction.

#### **DH-E (16 hours)**

The DH-E is an E-Series derrick which has a CAN-based control system providing enhanced machine performance and maintenance troubleshooting capabilities using the AXIS Service Tool. The virtual course is interactive and is divided into two days, covering an introduction, unit specifications, safety, preventive maintenance, hydraulic and the electrical systems.



#### **JEMS S (4 hours)**

This virtual training is divided into three parts. Participants will determine how to safely operate and troubleshoot the system, recognize individual components and explore circuits.

#### **JEMS SE (4 hours)**

This virtual training is divided into three parts. Participants will determine how to safely operate and troubleshoot the system, recognize individual components and explore circuits.



#### **Sign Up**

Tel: (816) 901-4894

Email: [service.training@altec.com](mailto:service.training@altec.com)

**Note:** Taking the AXIS and CAN webinars in addition to this course is strongly encouraged for technicians to properly troubleshoot and diagnose units with CAN-based systems.



# 2027 INTERACTIVE WEBINARS

## MAINTENANCE TRAINING

The 60-minute interactive webinar sessions include virtual learning tools, handouts and real-time instruction. These webinars are great as introductory training for new hires or as refresher training throughout the year. Technicians can participate in individual webinar courses, select a learning path for a topic or sign up for a week at a time. Course descriptions appear alphabetically on the following pages.

NOTE: Courses ending in numbers should be taken in order as they build on each other with 1 being foundational.

### 2027 WEBINAR SERIES

# WEEK 1

**JANUARY 25-28 | MARCH 15-18 |  
APRIL 12-15 | MAY 24-27 | JUNE 7-10 |  
JULY 12-15 | AUGUST 23-26 |  
OCTOBER 18-21 | NOVEMBER 15-18 |  
DECEMBER 13-16**

|                  |                                   |
|------------------|-----------------------------------|
| <b>Monday</b>    |                                   |
| 8:30 a.m.        | Maintenance Safety                |
| 10:00            | Shop Tools                        |
| -break-          |                                   |
| 12:30 p.m.       | Preventive Maintenance 1          |
| 2:00             | Preventive Maintenance 2          |
| <b>Tuesday</b>   |                                   |
| 8:30 a.m.        | Preventive Maintenance 3          |
| 10:00            | Intro to Hydraulic Symbols        |
| -break-          |                                   |
| 12:30 p.m.       | Basic Hydraulics 1                |
| 2:00             | Basic Electrical 1                |
| <b>Wednesday</b> |                                   |
| 8:30 a.m.        | Basic Hydraulics 2                |
| 10:00            | Basic Hydraulics 3                |
| -break-          |                                   |
| 12:30 p.m.       | Basic Electrical 2                |
| 2:00             | Basic Electrical 3                |
| <b>Thursday</b>  |                                   |
| 8:30 a.m.        | Power Distribution Module (PDM) 1 |
| 10:00            | Electrical Diagnostic Tools       |
| -break-          |                                   |
| 12:30 p.m.       | Controller Area Network (CAN) 1   |
| 2:00             | AXIS 1                            |

### 2027 WEBINAR SERIES

# WEEK 2

**JANUARY 11-14 | FEBRUARY 8-11 |  
MARCH 29-APRIL 1 | APRIL 26-29 | MAY 10-13  
JUNE 21-24 | JULY 26-29 | AUGUST 9-12 |  
SEPTEMBER 13-16 | OCTOBER 4-7 |  
NOVEMBER 1-4 | NOVEMBER 29-DECEMBER 2**

|                  |                                                           |
|------------------|-----------------------------------------------------------|
| <b>Monday</b>    |                                                           |
| 8:30 a.m.        | Analog Interpretation                                     |
| 10:00            | Reading Hydraulic Schematics                              |
| -break-          |                                                           |
| 12:30 p.m.       | Reading Electrical Schematics                             |
| 2:00             | Power Distribution Module (PDM) 2                         |
| <b>Tuesday</b>   |                                                           |
| 8:30 a.m.        | Power Distribution Module (PDM) 3                         |
| 10:00            | Controller Area Network (CAN) 2                           |
| -break-          |                                                           |
| 12:30 p.m.       | AXIS 2                                                    |
| 2:00             | Arcadia Schematics                                        |
| <b>Wednesday</b> |                                                           |
| 8:30 a.m.        | Electric-Over-Hydraulic Systems 1<br>(Open Center)        |
| 10:00            | Electric-Over-Hydraulic Systems 2<br>(Closed Center)      |
| -break-          |                                                           |
| 12:30 p.m.       | Pump Controls                                             |
| 2:00             | Pre- and Post- Compensating Valves                        |
| <b>Thursday</b>  |                                                           |
| 8:30 a.m.        | Preventive Maintenance 4 (Cranes)                         |
| 10:00            | Crane Computer Systems (LMAP)<br>-for US technicians only |

Central time shown.



**Sign Up**

Tel: (816) 901-4894 Email: [service.training@altec.com](mailto:service.training@altec.com)



# 2027 INTERACTIVE WEBINARS (WEEK 1)

## MAINTENANCE TRAINING

| Course                                                                                                                                                                                                                                                                                                                                       | Date        | Time (CT)       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|
| <b>AXIS 1</b><br>Participants discuss the benefits of the AXIS tool, navigation, credentials, inputs and outputs.                                                                                                                                                                                                                            | January 28  | 2:00 p.m. (CT)  |
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| <b>Basic Electrical 1</b><br>Participants define basic electrical concepts, examine Ohm's Law, discuss the importance of electrical safety, and describe series and parallel circuits. They also determine correct lead placement on the DVOM to test voltage, resistance and current, and will determine where to place leads when testing. | January 26  | 2:00 p.m. (CT)  |
|                                                                                                                                                                                                                                                                                                                                              | March 16    |                 |
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| <b>Basic Electrical 2</b><br>Participants recall potential safety concerns when dealing with electrical circuits and components, identify electrical components by their symbols and trace flow through an electrical circuit.                                                                                                               | January 27  | 12:30 p.m. (CT) |
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# 2027 INTERACTIVE WEBINARS (WEEK 1)

## MAINTENANCE TRAINING

| Course                                                                                                                                                                                                                                                             | Date        | Time (CT)       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|
| <b>Basic Electrical 3</b><br>Participants identify components on electrical drawings, discuss types of chassis/machine interfaces, the outrigger interlock system, electrical control systems and basic electrical diagnostics.                                    | January 27  | 2:00 p.m. (CT)  |
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| <b>Basic Hydraulics 1</b><br>Participants use the basic principles of fluid power to answer questions, describe properties of hydraulic fluids and recognize corresponding symbols for components.                                                                 | January 26  | 12:30 p.m. (CT) |
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| <b>Basic Hydraulics 2</b><br>Participants recognize damaging effects of contamination and improper fluid in a hydraulic system, determine the proper procedure for taking a hydraulic fluid sample and identify where to find specifications for fluid conductors. | January 27  | 8:30 a.m. (CT)  |
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# 2027 INTERACTIVE WEBINARS (WEEK 1)

## MAINTENANCE TRAINING

| Course                                                                                                                                                                                                                                     | Date        | Time (CT)       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|
| <b>Basic Hydraulics 3</b><br>Participants identify hydraulic symbols for valves, determine valve placement in a system and identify internal valve components and types of flow controls.                                                  | January 27  | 10:00 a.m. (CT) |
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| <b>Controller Area Network (CAN) 1</b><br>Participants identify types of chassis/machine interfaces and how to locate parameters on schematics and discuss how to isolate a fault in a circuit.                                            | January 28  | 12:30 p.m. (CT) |
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| <b>Electrical Diagnostic Tools</b><br>Participants discuss how to properly maintain and use digital volt-ohm meters (DVOMs) and amp clamps for basic electrical testing. They determine how to set and use a DVOM in real-world scenarios. | January 28  | 10:00 a.m. (CT) |
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# 2027 INTERACTIVE WEBINARS (WEEK 1)

## MAINTENANCE TRAINING

| Course                                                                                                                                                                                                                                                                                                                                                         | Date        | Time (CT)       |
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| <b>Introduction to Hydraulic Symbols</b><br>Participants break down individual symbol components and identify symbols in a schematic.                                                                                                                                                                                                                          | January 26  | 10:00 a.m. (CT) |
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| <b>Maintenance Safety</b><br>Participants review key best practices for maintenance safety. Discussion includes how to complete a Job Hazard Assessment, select proper PPE and follow Sentry procedures. They consider common jobsite hazards and how to practice safe, effective countermeasures.                                                             | January 25  | 8:30 a.m. (CT)  |
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| <b>Power Distribution Module (PDM) 1</b><br>Participants get a general overview of PDM boards (PDM, PDM 10 and PDM 6A). They practice identifying parts of the board with correct terminology and locating components with a board drawing. They also explore how basic interconnects including ignition and truck/machine systems are tied into board layout. | January 28  | 8:30 a.m. (CT)  |
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# 2027 INTERACTIVE WEBINARS (WEEK 1)

## MAINTENANCE TRAINING

| Course                                                                                                                                                                                                                                                                                                     | Date        | Time (CT)       |
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| <b>Preventive Maintenance 1</b><br>Participants identify sections of the Altec Maintenance Manual, discuss how to conduct a preventive maintenance inspection, use the Preventive Maintenance Checklist to determine when to replace filters and reference charts for inspection processes and procedures. | January 25  | 12:30 p.m. (CT) |
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| <b>Preventive Maintenance 2</b><br>Participants identify proper torquing procedures, determine when to perform turntable tilt, HOP and side load protections. They also review how to locate basic testing procedures.                                                                                     | January 25  | 2:00 p.m. (CT)  |
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| <b>Preventive Maintenance 3</b><br>Participants discuss hydraulic system pressure checks, the rotation bearing and gearbox, structural tests, manual stowage and atmospheric vent testing.                                                                                                                 | January 26  | 8:30 a.m. (CT)  |
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# 2027 INTERACTIVE WEBINARS (WEEK 1)

## MAINTENANCE TRAINING

| Course                                                                                                                                                                                                                                                                                                                                                                              | Date        | Time (CT)       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|
| <b>Shop Tools</b><br>Participants review usage, care and storage of basic testing and troubleshooting tools. They consider when to use tools such as a flow meter, pressure gauge, dynamometer, test bracket, caliper, micrometer, and dial indicator in real-world scenarios. They cover the importance of calibrating tools and recognize which tools require annual calibration. | January 25  | 10:00 a.m. (CT) |
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# 2027 INTERACTIVE WEBINARS (WEEK 2)

## MAINTENANCE TRAINING

| Course                                                                                                                                                                                                                                                                      | Date         | Time (CT)       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|
| <b>Analog Interpretation</b><br>Participants explore how to work with analog data, learning to collect, record and interpret it using tools including E-Series I/O modules, PDM test circuits and driver boards.                                                            | January 11   | 8:30 a.m. (CT)  |
|                                                                                                                                                                                                                                                                             | February 8   |                 |
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| <b>Arcadia Schematics</b><br>Participants dive into reading Arcadia electrical drawings and learn how to locate the right ones for a specific unit. They practice using and understanding the schematics by following circuits to find specific components with confidence. | January 12   | 2:00 p.m. (CT)  |
|                                                                                                                                                                                                                                                                             | February 9   |                 |
|                                                                                                                                                                                                                                                                             | March 30     |                 |
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| <b>AXIS 2</b><br>Participants use in-depth AXIS system knowledge to troubleshoot real-world scenarios on E-series units. They learn how to navigate diagnostic pages effectively to pinpoint issues and guide repairs with confidence                                       | January 12   | 12:30 p.m. (CT) |
|                                                                                                                                                                                                                                                                             | February 9   |                 |
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| Course                                                                                                                                                                                                                                                                                                               | Date         | Time (CT)       |
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| <b>Controller Area Network (CAN) 2</b><br>Participants explore how e-Stop, I/O modules and nodes are incorporated into and operate with Altec CAN systems, gaining an understanding of each component and the CAN network.                                                                                           | January 12   | 10:00 a.m. (CT) |
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| <b>Crane Computer Systems (LMAP)<br/>For US technicians only</b><br>Participants are introduced to computer systems commonly used on Altec cranes. They learn to recognize the differences between the Hirschmann and Greer systems and to navigate them while troubleshooting real-world scenarios with confidence. | January 14   | 10:00 a.m. (CT) |
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| <b>Electric-Over-Hydraulic Systems 1<br/>(Open Center)</b><br>Participants explore basics of electric-over-hydraulic open center system components and operation. They draw an open center system as directed and use AT200A schematics to explain how an open center system works.                                  | January 13   | 8:30 a.m. (CT)  |
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# 2027 INTERACTIVE WEBINARS (WEEK 2)

## MAINTENANCE TRAINING

| Course                                                                                                                                                                                                                                                                                                                                                                                                        | Date         | Time (CT)       |
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| <b>Electric-Over-Hydraulic Systems 2 (Closed Center)</b><br>Participants explore basics of electric-over-hydraulic closed center system components and operation including how load sense, pre-compensation and actuation work. They examine and discuss DM47-B schematics.                                                                                                                                   | January 13   | 10:00 a.m. (CT) |
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| <b>Power Distribution Module (PDM) 2</b><br>This course builds on content from PDM 1. Participants identify key components needed to complete the PDM circuit and to activate and complete the start/stop and throttle circuits for truck/machine operation. They dive deeper into how circuits connect with PTO systems and overall machine functionality, building a strong foundation in system circuitry. | January 11   | 2:00 p.m. (CT)  |
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| <b>Power Distribution Module (PDM) 3</b><br>Participants explore how to troubleshoot and recover a unit using PDM's built-in features. They practice interpreting real-time system feedback to diagnose issues in truck/machine and throttle circuits with a focus on start/stop and PTO activation.                                                                                                          | January 12   | 8:30 a.m. (CT)  |
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# 2027 INTERACTIVE WEBINARS (WEEK 2)

## MAINTENANCE TRAINING

| Course                                                                                                                                                                                                                                                                                                                                                                                                                     | Date         | Time (CT)       |
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| <b>Pre- and Post- Compensating Valves</b><br>Participants learn what pre- and post-compensating valves are, how they function in hydraulic systems and their importance in system performance and control.                                                                                                                                                                                                                 | January 13   | 2:00 p.m. (CT)  |
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| <b>Preventive Maintenance 4: Cranes</b><br>Participants cover basic preventive maintenance for cranes and radio remotes, learning to recognize key components and perform essential checks to help keep crane systems running smoothly and safely. They determine if LMAP is reading correctly based on a load chart, how to check and adjust boom retract cables and how to safely lubricate crane boom and winch cables. | January 14   | 8:30 a.m. (CT)  |
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| <b>Pump Controls</b><br>Participants explore pump controls to understand how pump compensators work. They examine how margin pressure, compensated pressure and load sense interact to affect pump output and overall system performance.                                                                                                                                                                                  | January 13   | 12:30 p.m. (CT) |
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# 2027 INTERACTIVE WEBINARS (WEEK 2)

## MAINTENANCE TRAINING

| Course                                                                                                                                                                                  | Date         | Time (CT)       |
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| <b>Reading Electrical Schematics</b><br>Using schematics, participants trace the flow of electrons through an electric circuit and troubleshoot a real-world scenario.                  | January 11   | 12:30 p.m. (CT) |
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| <b>Reading Hydraulic Schematics</b><br>Using schematics, participants trace the flow of hydraulic oil through an electric-over-hydraulic system and troubleshoot a real-world scenario. | January 11   | 10:00 a.m. (CT) |
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# MAINTENANCE ECOURSES AND HOW TO VIDEOS

## NEW: IFPS Mobile Hydraulic Mechanic Prep eCourse

Self-paced (30 mins)

## Introductory Level eCourses

Self-paced (1 hour)

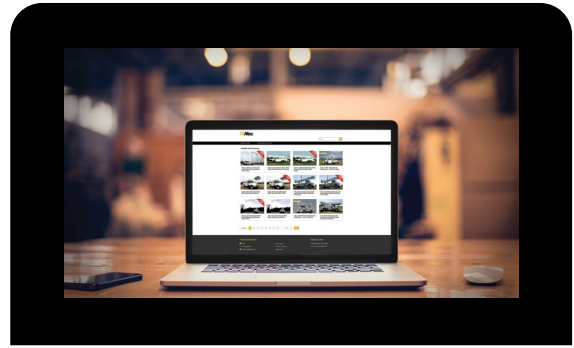
Introductory maintenance eCourses are available for some Altec units. Each course can be completed in approximately one hour at the learner's convenience and pace. The courses allow learners to navigate through unit systems and components to better understand inspections and repairs. These introductory courses are a good starting point for technicians who are unfamiliar with a specific Altec unit and can serve as solid preparation for the live, unit specific trainings.

### Course Content

- Unit specifications
- Safety
- Preventive maintenance and inspection
- Hydraulic system(s)
- Mechanical system(s)
- Electrical system(s)
- Troubleshooting

### eCourse units available:

- AA/AN/AN-OC
- AM50/55/60
- AT200A
- AT235P
- AT30-G/AT35-G/AT37-G
- A-T40C
- AT40-G
- D2000B/3000B/4000B
- DLB/DMB
- DT80
- T40P
- TA50/55/60



## Maintenance How To Videos

(short/exact length varies)

A collection of short maintenance How To videos is now available. The videos illustrate different tasks and procedures that can serve as a great starting point for technicians learning to perform specific checks/tests and to use Altec resources. Each video provides a quick look at how to do something and can be handy when a technician needs it.

- Altec Rotation Fastener Annual Torque Inspection
- Checking Pilot Pressure
- DH-E Slip Ring Overview
- HOP Testing
- How to Perform a Structural Test
- How to Use the Altec Maintenance Manual
- How to Use the Lubrication Chart
- How to Use the Preventive Maintenance Checklist
- How to Use the Weld Figure
- Hydraulic Oil Sample
- Hydraulic System Filters



To enroll, contact the Altec Service Training Department by email at [service.training@altec.com](mailto:service.training@altec.com) or call (816) 901-4894.



# **VIRTUAL TRAINING REQUEST FORM**

**SERVICE.TRAINING@ALTEC.COM**

To sign up for Maintenance Interactive Webinars or eCourses, please provide the following information and email this form to [service.training@altec.com](mailto:service.training@altec.com). Submitting this form does not automatically reserve a seat. You will receive confirmation after submission. Enrollment closes a day prior to the scheduled webinar sessions.

## **General Information**

Company Name:

Billing Address:

PO:

## **Contact Information**

Name:

Phone:

Email:

Comments:

## **Course Information**

Course title(s) and Session Date(s):

Example: Preventive Maintenance Series, August 13.

Number of participant links per course (1-20):

Participant name(s) and email(s):

Example: Firstname Lastname, address@email.com;

If you have any questions, contact the Service Training Department by email at [service.training@altec.com](mailto:service.training@altec.com) or call the Service Training Department at (816) 901-4894.

\*Altec Service does not provide training to third-party service providers.