

2018 Regional Training Schedule

Appleton, WI



Class #	Class Title	Start Date	End Date	Cost	Class Location
2018A	Chassis Electrical	2/5/18	2/6/18	\$600	Public Safety Building W6400 County RD. BB Appleton, WI
2018B *	Command Zone™ I, II & III	2/7/18	2/9/18	\$900	Public Safety Building W6400 County RD. BB Appleton, WI
2018C *	Ascendant™ Class Aerial Maintenance	3/12/18	3/13/18	\$600	Public Safety Building W6400 County RD. BB Appleton, WI
2018D	Preventive Maintenance	3/12/18	3/13/18	\$600	Public Safety Building W6400 County RD. BB Appleton, WI
2018E	CAFS/Husky™ Maintenance	3/14/18	3/15/18	\$600	Public Safety Building W6400 County RD. BB Appleton, WI
2018F	Pierce PUC™ Pump Repair & Maintenance	3/16/18	3/16/18	\$300	<i>Fox Valley Tech. (Building T) 1825 Bluemound DR. Appleton, WI</i>
2018G *	Command Zone™ III Workshop	3/16/18	3/16/18	\$300	Public Safety Building W6400 County RD. BB Appleton, WI
2018H *	Aerial Maintenance	4/30/18	5/1/18	\$600	Public Safety Building W6400 County RD. BB Appleton, WI
2018I	Chassis Electrical	4/30/18	5/1/18	\$600	Public Safety Building W6400 County RD. BB Appleton, WI
2018J	Air Brakes, ESC, ABS Troubleshooting	5/2/18	5/4/18	\$900	<i>Fox Valley Tech. (Building T) 1825 Bluemound DR. Appleton, WI</i>
2018K *	Command Zone™ I, II & III	5/2/18	5/4/18	\$900	Public Safety Building W6400 County RD. BB Appleton, WI
2018L *	SRP/Frontal Protection	6/4/18	6/5/18	\$600	Public Safety Building W6400 County RD. BB Appleton, WI
2018M *	Ascendant™ Class Aerial Maintenance	6/4/18	6/5/18	\$600	Public Safety Building W6400 County RD. BB Appleton, WI
2018N	TAK-4® Suspension Maintenance	6/6/18	6/7/18	\$600	<i>Fox Valley Tech. (Building T) 1825 Bluemound DR. Appleton, WI</i>

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2018O *	Chassis Diagnostics	6/6/18	6/8/18	\$900	<i>Fox Valley Tech. (Building T) 1825 Bluemound DR. Appleton, WI</i>
2018P	Pierce PUC™ Pump Repair & Maintenance	6/8/18	6/8/18	\$300	<i>Fox Valley Tech. (Building T) 1825 Bluemound DR. Appleton, WI</i>
2018Q *	Command Zone™ III Workshop	6/8/18	6/8/18	\$300	Public Safety Building W6400 County RD. BB Appleton, WI
2018U *	SRP/Frontal Protection	7/16/18	7/17/18	\$600	Public Safety Building W6400 County RD. BB Appleton, WI
2018V	Chassis Electrical	7/16/18	7/17/18	\$600	Public Safety Building W6400 County RD. BB Appleton, WI
2018W *	Advanced Aerial Training	7/18/18	7/20/18	\$900	Public Safety Building W6400 County RD. BB Appleton, WI
2018X *	Command Zone™ I, II & III	7/18/18	7/20/18	\$900	Public Safety Building W6400 County RD. BB Appleton, WI
2018Y *	Ascendant™ Class Aerial Maintenance	8/6/18	8/7/18	\$600	Public Safety Building W6400 County RD. BB Appleton, WI
2018Z	TAK-4® Suspension Maintenance	8/6/18	8/7/18	\$600	<i>Fox Valley Tech. (Building T) 1825 Bluemound DR. Appleton, WI</i>
2018AA	Air Brakes, ESC, ABS Troubleshooting	8/8/18	8/10/18	\$900	<i>Fox Valley Tech. (Building T) 1825 Bluemound DR. Appleton, WI</i>
2018BB *	Aerial Maintenance	8/8/18	8/9/18	\$600	Public Safety Building W6400 County RD BB Appleton, WI
2018CC	Pierce PUC™ Pump Repair & Maintenance	8/10/18	8/10/18	\$300	<i>Fox Valley Tech. (Building T) 1825 Bluemound DR. Appleton, WI</i>
2018DD	Chassis Electrical	9/24/18	9/25/18	\$600	Public Safety Building W6400 County RD. BB Appleton, WI
2018EE	Preventive Maintenance	9/24/18	9/25/18	\$600	Public Safety Building W6400 County RD. BB Appleton, WI
2018FF *	Command Zone™ I, II & III	9/26/18	9/28/18	\$900	Public Safety Building W6400 County RD. BB Appleton, WI
2018GG	CAFS/Husky™ Maintenance	9/26/18	9/27/18	\$600	Public Safety Building W6400 County RD. BB Appleton, WI
2018HH	Air Conditioning	9/28/18	9/28/18	\$300	Public Safety Building W6400 County RD. BB Appleton, WI
2018II *	Ascendant™ Class Aerial Maintenance	10/15/18	10/16/18	\$600	Public Safety Building W6400 County RD. BB Appleton, WI
2018J *	Advanced Aerial Training	10/17/18	10/19/18	\$900	Public Safety Building W6400 County RD. BB Appleton, WI
2018KK	TAK-4® Suspension Maintenance	11/5/18	11/6/18	\$600	<i>Fox Valley Tech. (Building T) 1825 Bluemound DR. Appleton, WI</i>
2018LL	Chassis Electrical	11/5/18	11/6/18	\$600	Public Safety Building W6400 County RD. BB Appleton, WI
2018MM*	Chassis Diagnostics	11/7/18	11/9/18	\$900	<i>Fox Valley Tech. (Building T) 1825 Bluemound DR. Appleton, WI</i>
2018NN *	SRP/Frontal Protection	11/7/18	11/8/18	\$600	Public Safety Building W6400 County RD. BB Appleton, WI
2018OO *	Command Zone™ III Workshop	11/9/18	11/9/18	\$300	Public Safety Building W6400 County RD. BB Appleton, WI

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*** Pre-Requisite See Course Descriptions Below**

Register Online at (<http://pierce.wisc-online.com/ClassRegWelcome.asp>)

Classes will be 8:00 to 3:30 each day

**Please Contact Dan Bailey with Scheduling Questions
(920) 832-3168 dbailey@piercemfg.com**

**Course Title: Advanced Aerial Training
Length of Course: 3 Days**

****Prerequisite: Pierce® Chassis Electrical Class, Command Zone II™ Class, and the Aerial Maintenance Class***

This course has been designed to instruct mechanics on the advanced repair and maintenance of the Pierce® Aerial Systems.

The class will cover the following concepts:

- Identification, Documentation, and repairing of structural damage
- Operational differences and characteristics of all Pierce Aerial models
- Advanced hydraulics
 - Theory of operation
 - Inspecting, testing, adjusting, and repairing, including tear-down of most components
- Electrical systems
 - Programming and troubleshooting of:
 - Command Zone I
 - Command Zone II
 - Utilizing diagnostic software for CZI, CZII & D-Series Systems
 - Working with operating envelopes and components
- Miscellaneous Repairs
 - Slip tube repairs and replacement
 - Ladder and cable adjustments
 - Waterway swivel

Participants will have the opportunity to do advanced troubleshooting, repair faults, hands-on hydraulic component tear-down, and work with the Command Zone Control system in depth. Each student will leave the class with a complete understanding of the Command Zone Control System, hydraulic system, hydraulic components, including their functions and repairs.

<u>Lesson</u>	<u>Time (Hrs.)</u>	<u>Topic</u>
1.	1:00	Introductions, Safety, Command Zone Systems
2.	2:00	Data Links
3.	1:00	Command Zone Components and Module ID
4.	2:00	CZ Distribution Area's and CZIC
5.	2:00	Command Zone I/O Sheets
6.	3:00	Command Zone Software
7.	3:00	Command Zone Prints and Troubleshooting
8.	2:00	Command Zone Maintenance

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Course Title: Air Brakes, ESC & ABS Troubleshooting**Length of Course: 3 Days**

This course is intended to supply to the mechanic basic air brake theory and proper repair and maintenance procedures on chassis air brake systems. During the 3 day class utilizing classroom instruction and hands-on experience, the mechanic will cover the chassis air supply system, brake valves and components, and the proper testing and repair of the system components.

<u>Lesson</u>	<u>Time (Hrs.)</u>	<u>Topic</u>
1.	2:00	Introductions, Basic Air Systems, and Safety
2.	4:00	Air Supply System
3.	2:00	Brake Maintenance
4.	2:00	Anti-lock Brake Systems
5.	2:00	RSC and ESC Systems
6.	2:00	Drum Brakes
7.	2:00	Disc Brakes

Course Title: Air Conditioning**Length of Course: 1 Day**

This 1 day course will acquaint students with the basic repairs and maintenance needs of the air conditioning systems. The class will cover fundamentals of the air conditioning systems, proper system charging and evacuation, and detailed troubleshooting of the Pierce® installed components. Classroom as well as practical experience will be provided.

<u>Lesson</u>	<u>Time (Hrs.)</u>	<u>Topic</u>
1.	2:00	Introductions, Safety, and AC Fundamentals
2.	2:00	AC System Parts, Functions, and Operation
3.	2:00	System Repairs and Troubleshooting
4.	2:00	Refrigerant Recovery and Charging

Course Title: CAFS/Husky™ Maintenance**Length of Course: 2 Days**

This 2 day course will utilize classroom work, hands-on training, and demonstrations to teach the basic principles of operation, maintenance, and repair of all the Pierce Husky™ Foam Systems and the Hercules™ Compressed Air Foam (CAF) Systems. The training will include model specific hydraulic and electrical systems.

<u>Lesson</u>	<u>Time (Hrs.)</u>	<u>Topic</u>
1.	2:00	Introductions, Safety, and Foam and Foam Systems
2.	6:00	Husky™ 3, 10 and 12 Operation and Repair:
3.	4:00	Hercules™ CAF System Operation and Repair
4.	4:00	Husky™ Balanced Pressure System Operation and Repair

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Course Title: Ascendant™ Class Aerial Maintenance (107' & 110')
Length of Course: 2 Days

Prerequisite: Command Zone™ II

This course is designed to instruct the student on the proper repair and maintenance of our new line of **Ascendant Class Aerials** by using both classroom and hands-on Training. This class will cover the aerial electrical and hydraulic systems along with components

Note - This class will only cover the Ascendant Class Aerials

<u>Lesson</u>	<u>Time (Hrs.)</u>	<u>Topic</u>
1.	2:00	Introductions, Aerial Systems, and Safety
2.	3:00	System Maintenance Information and Schedules:
3.	3:00	Component Inspection Procedures
4.	3:00	Component Maintenance and Repair
5.	3:00	Pierce® multiplexed aerial components and functions
6.	2:00	Using multiplexed aerial Input /Output (I/O) sheets

Course Title: Aerial Maintenance
Length of Course: 2 Days

Prerequisite: Command Zone

This course is designed to instruct the student on the proper repair and maintenance of the Pierce® Aerial ladders and platforms by using both classroom and hands-on Training. This class will cover Pierce® Aerial electrical systems, Pierce® Aerial hydraulic systems, system component identification and functions, Pierce® multiplexed aerial components and functions, and the purpose and use of multiplexed aerial Input /Output (I/O) sheets.

Note - This class does not cover the Ascendant™ Class Aerials (107' & 110')

<u>Lesson</u>	<u>Time (Hrs.)</u>	<u>Topic</u>
1.	2:00	Introductions, Aerial Systems, and Safety
2.	3:00	System Maintenance Information and Schedules:
3.	3:00	Component Inspection Procedures
4.	3:00	Component Maintenance and Repair
5.	3:00	Pierce® multiplexed aerial components and functions
6.	2:00	Using multiplexed aerial Input /Output (I/O) sheets

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Course Title: Chassis Electrical
Length of Course: 2 Days

This electrical course deals with the (non-multiplex) electrical systems found on our Pierce® Chassis. The class is structured to cover location and function of major electrical components used on these vehicles. The class will include lecture, demonstration and hands-on instruction covering the following topics:

- Battery & charging systems
- Pierce® electrical system wiring diagrams, schematics & layouts
- Crimping
- Power distribution location and harness routing
- PMC II & PMC III (Pierce® Micro Controller) troubleshooting
- World transmission
- Anti-lock Braking System (ABS)
- Pressure Governors

<u>Lesson</u>	<u>Time (Hrs.)</u>	<u>Topic</u>
1.	2:00	Introductions, Safety, Chassis Electrical Systems
2.	3:00	Basic Electrical, Schematics, And Service Information
3.	4:00	Troubleshooting and Diagnostic Strategies
4.	2:00	Charging Systems
5.	1:00	Wire, Terminal, and Connector Repair
6.	2:00	Control Systems
7.	1:00	Pierce Command Zone Overview

Course Title: Preventive Maintenance
Length of Course: 2 Days

This 2 day course will instruct the student on the preventive maintenance procedures needed for fire apparatus based off NFPA and DOT Standards. This class will cover Front & rear suspensions, cab & cab tilt systems, driveline, Water pump & foam systems, and performance testing of equipment. Classroom as well as practical experience will be provided.

<u>Lesson</u>	<u>Time (Hrs.)</u>	<u>Topic</u>
1.	4:00	Introductions, Safety, and General Inspection
Requirements		
2.	4:00	Identifying and Inspecting the Chassis and Crew Areas:
3.	2:00	Hands-on PM Inspection of Apparatus
4.	2:00	Identifying and Inspecting Pumping Systems
5.	1:00	Inspection and Pm of Foam Systems
6.	1:00	Inspection and PM of Auxiliary Systems
7.	2:00	Performance Testing of Apparatus

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Course Title: COMMAND ZONE™ Systems
Length of Course: 3 Days

***Prerequisite: Chassis Electrical**

This course will provide instruction on the Pierce® Command Zone electrical systems including the new Command Zone III. During the 3 day class the student will receive classroom instruction and hands-on opportunities to troubleshoot and repair faults.

Some of the topics that will be covered are:

- Command Zone terminology
- Why specific components are used
- Component locations and their functions
- Purpose and use of an Input /Output (I/O) sheets
- Explanation of interlock functions
- Instructions on the use of Command Zone software
- Suggested test equipment and spare parts lists.

<u>Lesson</u>	<u>Time (Hrs.)</u>	<u>Topic</u>
1.	1:00	Introductions, Safety, Command Zone Systems
2.	2:00	Data Links
3.	1:00	Command Zone Components and Module ID
4.	2:00	CZ Distribution Area's and CZIC
5.	2:00	Command Zone I/O Sheets
6.	3:00	Command Zone Software
7.	3:00	Command Zone Prints and Troubleshooting
8.	2:00	Command Zone Maintenance

Course Title: Pierce PUC™ Pump Repair and Maintenance
Length of Course: 1 Day

Students attending this 1 day course will, through classroom work, hands-on training, and demonstrations, learn the basic principles of operation, maintenance and complete disassembly of the REPTO driven water pump and gear box assembly that is designed by Pierce®. We will encourage hands-on participation with the tear down and reassembly of the pump.

<u>Lesson</u>	<u>Time (Hrs.)</u>	<u>Topic</u>
1.	2:00	Introductions, Safety, and PUC Design and Features
2.	1:00	Driveline and Pump Disassembly:
3.	1:00	Pump Transmission Disassembly
4.	1:30	Pump Transmission Reassembly
5.	1:30	Pump Reassembly
6.	1:00	Pierce Pressure Governor and PUC Maintenance

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Course Title: SRP/Frontal Protection
Length of Course: 2 Days

***Prerequisite: Chassis Electrical**

This is a very detailed 2 day class with both classroom instruction and hands-on opportunities covering the installation, repair and troubleshooting of the SRP/FIP system.

Topics to be covered are:

- How the SRP & Frontal Protection system operates
- First generation of the Pierce SRP/FIP system and the current AB10 System
- Proper replacement of parts
- Safety concerns and safe handling of the parts
- Component location and function
- Proper troubleshooting
- Use of troubleshooting tools

The final part of the class will include an Exam, which will require a passing grade to certify the student. Only Pierce certified students will be allowed to work on the SRP & Frontal Systems.

<u>Lesson</u>	<u>Time (Hrs.)</u>	<u>Topic</u>
1. Configurations	3:00	Introductions, Safety, System Overview /
2.	3:00	Components
3.	2:00	Harness Routing
4.	3:00	SRP & FIP Troubleshooting and Repair
5.	4:00	AB10 Installation and Troubleshooting
6.	1:00	Test

Course Title: TAK-4® Suspension Maintenance
Length of Course: 2 Days

Students attending this 2 day course will learn the basic design and principles of our exclusive TAK-4® Independent Front Suspension system. Included is the proper maintenance, troubleshooting and repair procedures used on the system. The class will include lecture, demonstration, and hands-on instruction.

<u>Lesson</u>	<u>Time (Hrs.)</u>	<u>Topic</u>
1. Features	4:00	Introductions, Safety, and TAK-4® Design and
2.	4:00	Wheel Hub and Brake Assemblies
3.	3:00	Control Arms and Steering Components
4.	1:30	Torsion Bar Repairs
5.	1:30	Hydraulic System Service and Testing
6.	1:00	Troubleshooting
7.	1:00	Rear Suspension

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Course Title: Command Zone™ III Workshop
Length of Course: 1 Day

***Prerequisite: Command Zone II**

This workshop is designed for the technicians that have been through the Command Zone class in the past but does not have experience in the new Command Zone III system. We will discuss all the new enhancements along with operation and troubleshooting capabilities of the System

Course Title: Chassis Diagnostics and Repair
Length of Course: 3 Days

***Prerequisites Chassis Electrical, Command Zone, TAK-4 & Air Brakes (No Exceptions)**

This course has been designed to instruct technicians on how to identify the different systems and components that can affect and cause handling and drivability issues, noise, and safety of the fire apparatus chassis. The class will cover the following concepts:

- Troubleshooting Process
- Suspensions
 - Different types
 - Failures of suspension systems
 - Failure analysis
- Alignment
 - Suspension components that affect alignment
 - Tire issues
 - Correcting alignment issues
- Steering Systems
 - Steering issues
 - Power steering systems
 - Failure Analysis
- Wheel Ends
 - Brake components and component failures
 - Failure analysis
- Brakes
 - Cause and effect of failures
 - Failure analysis
- Engines
 - Components and failures
 - Failure analysis
- Driveline
 - Driveshaft mountings and angles
 - Driveline components
 - PTO'S
 - Axles
 - Transfer cases
 - Failure analysis

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Participants will have the opportunity to do advanced troubleshooting, perform failure analysis, understand how to determine the causes of chassis component failures along with how to properly repair and prevent those faults. Each student will leave the class with a complete understanding of common drivability issues and causes that affect the safety and operating condition of fire apparatus.

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