



## 2011 Training Class Schedule

### Appleton, WI



Class #	Class Title	Start Date	End Date	City	State	Cost
2011A	Chassis Electrical	2/8/2011	2/9/2011	Appleton	WI	\$500.00
2011B	Air Brakes, ESC, ABS Troubleshooting	2/8/2011	2/9/2011	Appleton	WI	\$500.00
2011C	Command Zone II	2/10/2011	2/11/2011	Appleton	WI	\$500.00
2011D	TAK-4 Maintenance	2/10/2011	2/11/2011	Appleton	WI	\$500.00
2011E	Aerial Maintenance	5/16/2011	5/17/2011	Appleton	WI	\$500.00
2011F	Air Brakes, ESC, ABS Troubleshooting	5/16/2011	5/17/2011	Appleton	WI	\$500.00
2011G	CAFS/Husky Maintenance	5/18/2011	5/19/2011	Appleton	WI	\$500.00
2011H	Preventive Maintenance	5/18/2011	5/19/2011	Appleton	WI	\$500.00
2011I	PUC Repair & Maintenance	5/20/2011	5/20/2011	Appleton	WI	\$250.00
2011J	Air Conditioning	5/20/2011	5/20/2011	Appleton	WI	\$250.00
2011K	Chassis Electrical	8/1/2011	8/2/2011	Appleton	WI	\$500.00
2011L	Aerial Maintenance	8/1/2011	8/2/2011	Appleton	WI	\$500.00
2011M	CAFS/Husky Maintenance	8/1/2011	8/2/2011	Appleton	WI	\$500.00
2011N	TAK-4 Maintenance	8/3/2011	8/4/2011	Appleton	WI	\$500.00
2011O	Command Zone II	8/3/2011	8/4/2011	Appleton	WI	\$500.00
2011P	Preventive Maintenance	8/3/2011	8/4/2011	Appleton	WI	\$500.00
2011Q	PUC Repair & Maintenance	8/5/2011	8/5/2011	Appleton	WI	\$250.00
2011R	Medtec Maintenance	8/5/2011	8/5/2011	Appleton	WI	\$250.00

## Class Descriptions:

### **Aerial Maintenance:**

This course is designed to instruct mechanics on the repair and maintenance of the Pierce Aerial ladders and platforms. The class will cover the following concepts:

- ~ Pierce aerial electrical system
- ~ Pierce aerial hydraulic system
- ~ System component identification and functions
- ~ Primary fifty (50) and four hundred (400) hour inspections
- ~ Pierce multiplexed aerial components and functions
- ~ Purpose and use of multiplexed aerial Input/Output (I/O) sheets

*The class will also include lecture, demonstration and hands on instruction*

**\*Pre-requisite: Participants maintaining Pierce multiplexed aerials should be familiar with multiplex components and terminology (or have attended the chassis multiplex class).**

### **Chassis Electrical:**

This is an introductory course dealing with the basic (non-multiplex) Pierce electrical system found on Quantum<sup>®</sup>, Saber<sup>®</sup> and Arrow XT<sup>™</sup> vehicles. The class is structured to cover location and function of major electrical components used on these vehicles. The following topics will be covered:

- ~ 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
- ~ Engine control DDC, Cummins or CAT
- ~ World transmission
- ~ Anti-lock Braking System (ABS)
- ~ Pressure Governor

*The class will also include lecture, demonstration and hands on instruction*

### **CAFS & Husky<sup>®</sup> Foam System Maintenance:**

This course is designed to instruct the mechanic on the basic repairs and maintenance of the Husky<sup>®</sup> & CAFS systems. Model specific electrical and hydraulic systems will also be covered.

*The class will also include lecture, demonstration and hands on instruction*

### **Command Zone<sup>™</sup>**

This course will provide instruction on the following concepts:

- ~ Command Zone<sup>™</sup> Rev. D system terminology
- ~ Why specific components are used
- ~ Component locations and their functions
- ~ Purpose and use of an Input/Output (I/O) sheet
- ~ Explanation of interlock functions
- ~ Instructions on the use of Command Zone<sup>™</sup> software
- ~ Suggested test equipment and spare parts lists.

*Participants will have the opportunity to hands on troubleshoot and repair faults that have been inserted in new vehicles. Each student will leave the class with a complete understanding of the Command Zone<sup>™</sup> multiplex system, along with copies of all training documentation for future reference.*

#### **TAK-4 Independent Front Suspension Maintenance:**

This course is designed to instruct the technician on the basic principles of our exclusive TAK-4<sup>®</sup> Independent Front Suspension system and the proper maintenance, troubleshooting and repair procedures.

*The class will also include lecture, demonstration and hands on instruction with an actual TAK-4<sup>®</sup> axle assembly.*

#### **PUC Troubleshooting and Repair**

This course is designed to instruct the mechanic on the basic principles of operation, maintenance and complete disassembly of the Repto Driven water pump that is designed by Pierce. We will encourage hands on participation with the tear down and assembly of the pump.

*The class will also include lecture, demonstration and hands on instruction*

#### **Pierce Air Condition System**

This 8 hour course is designed to instruct the mechanic on the basic repairs and maintenance needs of the air conditioning systems. The class will cover the following concepts;

- ~ Fundamentals of the air conditions systems
- ~ Proper System Charging and evacuation
- ~ Detailed troubleshooting of the Pierce installed components

Student will be offered the opportunity to get their **air conditioning certification** which falls under Section 608 of the Clean Air Act at the end of the class.

This class will be tailored to the Service Technicians.

#### **Medtec**

This course will cover training in Medtec's basic electrical system, V-Mux systems, Air Conditioning and troubleshooting along with the component locations.

#### **Preventive Maintenance**

This is a (2) day course covering Preventive Maintenance on a Pumper from bumper to bumper; this course will be based off NFPA & DOT guild lines for PM & Annual Inspections. The following sections will be covered.

- ~ Front & rear suspensions
- ~ Cab & cab tilt systems
- ~ Driveline
- ~ Water pump & foam systems
- ~ Body

#### **Air Brakes, ESC, ABS Troubleshooting**

This course is designed to instruct the mechanic on the basic repairs and maintenance of chassis Air Brake system. Items covered in the course are;

- ~ Air Brake System Operational Overview
- ~ Brake Valve Descriptions & Troubleshooting
- ~ Air Dryer Maintenance & Troubleshooting
- ~ Brake System Testing
- ~ ABS System Overview & Troubleshooting
- ~ ESC & RSC System Overview and Calibration
- ~ Service & Parking Brake System Overview