

**Washington Fire Chiefs**

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**2018 Washington Fire Mechanics Conference****Wenatchee Convention Center  
September 10-14, 2018**

Welcome to the 39th Annual Fire Mechanics Fall Conference.  
If you thought last year's Conference was great, you won't want to miss this one!

You can expect to meet and see some of the most renowned professionals in our industry.

Along with the most advanced education and training, you will be able to network with technicians throughout the country. The vendor show will be housed completely indoors this year and draw many exhibitors.

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**12th ANNUAL  
CREEPER DRAGS -  
SPONSORED BY  
WHATCOM  
ELECTRIC &  
BATTERY**

The 14th Annual Whatcom Electric & Battery Creeper Drag races will be held at the Wenatchee Convention Center on Tuesday, September 11, 2018. The Creeper Drag races will start at 6:00PM and continue until around 7:00PM in the lot behind the Wenatchee Convention Center.

[2016 Creeper Drag Rules](#)

**GET INVOLVED!**

The Fire Mechanics are seeking board members for the upcoming election. The election will take place at the annual meeting September 13th at the Wenatchee Convention Center.

## AGENDA

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### MONDAY

8am-5pm	F1 Maintenance & Inspection
8am-5pm	F-3 EVT Prep Fire Pumps
8am-5pm	F-4 Fire Apparatus & E-2 Ambulance Electrical
8am-5pm	F-5 EVT Prep Aerial Dynamics
8am-5pm	F-7 Fire Apparatus Foam Systems
8am-5pm	Basic Commercial Tire Service (CTS) OSHA Compliance Training
11am-2pm	See You In Court
12pm-1pm	Lunch
5pm	Monday Night Football

### TUESDAY

8am-3pm	F2 Design & Performance Standards
8am-3pm	F-3 EVT Prep Fire Pumps
8am-3pm	F-4 Fire Apparatus & E-2 Ambulance Electrical
8am-3pm	F-5 EVT Prep Ariel Dynamics
8am-3pm	F-7 Fire Apparatus Foam Systems
8am-11pm	Stihl Chainsaw/Cut-Off Saw Maintenance
8am-12pm	Washington State Rating Bureau
8am-12pm	L&I Shop Safety
12pm-1pm	Lunch
3-5:30pm	Vendor Show

If you are interested in a position, please email us at [wfc@washingtonfirechiefs.org](mailto:wfc@washingtonfirechiefs.org). You will need a written letter of support from your superior.

The following positions are up for election:

- **Chair**
- **Director #3**  
(*Current incumbent not seeking re-election*)
- **Director #4**  
(*Current incumbent not seeking re-election*)

## MEALS

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### MEALS

Event will be providing all meals except for dinner on Thursday & lunch on Friday.

**WEDNESDAY**

8am-5pm	F-3 EVT Prep Fire Pumps
8am-5pm	F-4 Fire Apparatus & E-2 Ambulance Electrical
8am-5pm	F-5 EVT Prep Ariel Dynamics
8am-5pm	F-6 Allison Transmissions
8am-5pm	F-8 Fire Apparatus Hydraulic Systems
8am-5pm	Cummins Insight
8am-12pm	NFPA
8am-12pm	Whelen
8am-12pm	Stemco
12pm-1pm	Lunch
5pm	Banquet

**THURSDAY**

8am-5pm	F-3 EVT Prep Fire Pumps
8am-5pm	F-4 Fire Apparatus & E-2 Ambulance Electrical
8am-5pm	F-5 EVT Prep Ariel Dynamics
8am-5pm	F-6 Allison Transmissions
8am-5pm	F-8 Fire Apparatus Hydraulic Systems
8am-5pm	Cummins DEF/SCR
12pm-1pm	Lunch

**CLASS DESCRIPTIONS**

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**F-1 EVT Prep Class: Maintenance & Inspection: Instructor Schampers**

Class covers Out of Service criteria from Chapter 6 & 7 in the NFPA 1911 publication 2012 Edition. Class will prepare students for the F 1 EVT exam pertaining to cab and chassis inspection.

The **F1** outline is located at [http://static.evtcc.org/pdf\\_files/F1.pdf](http://static.evtcc.org/pdf_files/F1.pdf) provides links for students to download information. **Please download the Meritor and review links. Students must bring an NFPA 1911 hard copy** with them for review.

**F-2 EVT Prep Class: Design & Performance Standards: Instructor Schampers**

The **F2** outline is located at [http://static.evtcc.org/pdf\\_files/F2.pdf](http://static.evtcc.org/pdf_files/F2.pdf) **Students must bring and require NFPA1901 hard copy** to highlight and study from Students will be expected to have a hard copy of their own.

**F-3 EVT Prep Class: Fire Pumps and Accessories: Instructor Towers**

Powerpoint presentation walking through the F-3 objectives covering the major fire pump manufacturers. Pump packing, mechanical seals, valve types, pressure relief systems vs governors. Tips and tricks related to pump testing difficulties, problems related to reaching capacity, pressure relief problems, and vacuum test issues. Pump theory and tear down. Full day of pump testing in the field.

**F-4 EVT Prep Class: Fire Apparatus & Ambulance Electrical Systems: Instructor Kempfer**

This workshop prepares the technician for the EVTCC exam and covers basic electricity including electrical theory; battery theory, meters, wire and cables; alternators and cranking motors; advanced electricity; the application of the above theories; plus troubleshooting of entire systems. The class covers the basic design and performance requirements of the fire and ambulance electrical systems, components of electrical systems and preventive maintenance and troubleshooting activities. The technician will understand the use of diagnostic equipment; batteries; the construction and operation of starting systems; charging systems and components; and the accepted practices used to diagnose and repair electrical systems.

Technicians are urged to obtain and study the reference material prior to attending the workshop. For reference material ordering information, visit [http://static.evtcc.org/pdf\\_files/F4.pdf](http://static.evtcc.org/pdf_files/F4.pdf).

**Required Textbooks & Classroom Resources:**

- Auto Electricity and Electronic Technology by James Duffy or Heavy Duty Truck/Equipment Clinic Manual by Interstate Battery KKK-A-1822E Federal Specification for Star of Life Ambulance GSA Publishing

**F5 EVT Prep: Instructor Bulygo**

This course will cover physics of firefighting aerials, maintenance, out of service criteria, laws, regulations & standards, and specification writing tips.

**F6 EVT Prep: Allison Transmissions: Instructor Conkle**

Basic understanding of the operating principles, preventative maintenance, and troubleshooting procedures on the MT/HT and 1000, 2000, 3000, & 4000 Allison Products.

**F7 EVT Prep: Fire Apparatus Foam Systems: Instructor Conkle**

*Class description to be added shortly!*

**F8 EVT Prep: Fire Apparatus Hydraulic Systems: Instructor Schampers**

The **F8** outline is located at [http://static.evtcc.org/pdf\\_files/F8.pdf](http://static.evtcc.org/pdf_files/F8.pdf) hydraulics questions are based from one source: "**Mobil Hydraulics Manual by Vickers**" and is a **MUST-HAVE** for success in EVT prepping.

**Basic Commercial Tire Service (CTS) OSHA Compliance Training: Instructor: Miller**

Companies that wish to provide OSHA compliance training for new hires and experienced technicians using an in-house program without certification can participate in the Basic CTS



Program (200 Level). This is a 4-hour video/workbook training program that can be conducted by a company-designated instructor. The instructor uses the TIA's Instructor Guide to lead the class through the videos and Student Workbooks that use lesson plans and module quizzes.

Following the training, the students complete a 50-question Final Exam. The last page of the Student Workbook contains the OSHA Skills Demonstration Form, which must be sent into TIA with the Final Exam answer sheet. Those who successfully pass earn a TIA Certificate of Completion.

These are the 12 Modules that make up the Basic CTS Program.

*Module 1: Safety*

Includes Personal Protective Equipment, lifting safety, and other topics like heat stroke and frostbite prevention.

*Module 2: Basic Tire Info*

Addresses tire construction, sizing and nomenclature, inflation pressure, tread design and compound for different applications, speed rating and all special service ratings and identification.

*Module 3: Rims and Wheels*

Outlines the difference between rims and wheels including the nomenclature for both assemblies. It will also identify and address the different type of hub and drum assemblies for commercial vehicles.

*Module 4: OSHA Regulations*

The video will include the script of the OSHA Regulation 29 CFR 1910.177 with images supporting the wording. The Manual will also include the OSHA Demount/Mount and Rim Matching Charts.

*Module 5: Jacking and Lifting*

Outlines procedures for properly jacking, lifting and supporting trucks, tractors and trailers. It will focus on jack and jack stand identification and operation as well as the proper position of each when lifting one, two, or three axles

*Module 6: Torque*

Defines the relationship between torque and clamping force when installing wheels and rims. This in-depth look at how tightening a fastener creates the force that holds the assemblies to the vehicles will help technicians understand the importance of the RIST procedure (Remove debris, Inspect components, Snug in a star, Torque to spec).

*Module 7: Wheel End Safety*

Addresses wheel end fires, commercial vehicle inspection, wheel-off prevention, and wheel end maintenance.

*Module 8: Hub-Pilot Wheels*

Puts the basic principles of the previous two modules to work with hub-pilot wheel removal as well as the inspection and installation guidelines that accompany the RIST procedure.

*Module 9: Stud-Pilot Wheels*

Focuses on stud-pilot wheel removal as well as the inspection and installation guidelines that accompany the RIST procedures.

*Module 10: Demountable Rims*

Addresses demountable rim removal as well as the inspection and installation guidelines that accompany the RIST procedures.

*Module 11: Single-Piece*

Dedicated to single-piece demount, mount and inflation procedures with an increased emphasis on disc wheel inspection, valve stem installation (including torque) and concentric bead seating techniques.

*Module 12: Multi-Piece*

Covers the basics for demounting, mounting and inflating two-piece and three-piece multi-

piece assemblies.

**Cummins DEF/SCR: Instructor Lightner**

*Class description will be added shortly.*

**Cummins Insite: Instructor Lightner**

This class will allow the student to be a certified Cummins Insite user. A certificate of completion will be provided to each student that completes the class. This will qualify the student to purchase Insite Pro along with having access to the calibrations to be able to keep the software current in their Cummins powered vehicles.

We will go through all of the functions of Insite and we will do a hands on section using a provided fire engine. We will cover the use of Quickserve On-Line.

**Labor & Industries Shop Safety: Instructor Mooney**

*Class description will be added shortly.*

**NFPA 1901-1911-1979: Instructor Honold**

*Class description will be added shortly.*

**Stihl Chainsaw/Cut Off Saw Maintenance: Instructor TBA**

*Class description will be added shortly.*

**Washington State Rating Bureau: Instructor Ferrell**

Ever wonder what goes into the fire rating your agency has? This class will tell you about what the inspectors are looking for from your fleet records side of it what you should be doing.

**Whelen: Instructor: Thompson**

*Class description will be added shortly.*