

# FTTC 2012



FIRE TRUCK TRAINING CONFERENCE

## 18<sup>TH</sup> ANNUAL SPARTAN CHASSIS FIRE TRUCK TRAINING CONFERENCE

Sunday October 14–Thursday October 18, 2012

The Lansing Center  
333 E. Michigan Avenue  
Lansing, MI 48933



**GET EVT CERTIFIED**

Registration will be available at <http://www.regonline.com/fttc2012> in the Spring.

# CLASS DESCRIPTIONS

## DEAR SERVICE PROFESSIONALS

You are invited to join us for the 18th Annual Fire Truck Training Conference, taking place from October 14 – 18, 2012, at the Lansing Center in Lansing, MI.

Registration will be available online at [www.regonline.com/fttc2012](http://www.regonline.com/fttc2012) in the Spring of 2012. You may also visit [www.spartanchassis.com/ft/ftevents.asp](http://www.spartanchassis.com/ft/ftevents.asp) for registration information.

Please review the Class Schedule in this booklet prior to registering online. Class descriptions listed are organized by three educational tracs (basic, intermediate and advanced). You are not limited to one particular trac and should choose those classes that best meet your training needs.

If a class is full online, you will have the option of being placed on a Wait List. If space becomes available in a full class and you are accepted from the Wait List, you will be notified via the e-mail address you provided during registration. It is critical that you provide a working e-mail address in order to receive any further communications or updates to your schedule. You can log back into your registration at any time by using the username and password you will create when registering for the first time.

If you plan to take advantage of the EVT Certification testing held during the Conference, you must mail or fax the Exam Registration Form to EVT Certification Commission by September 23rd (for October 14 exam) or September 27th (for October 18 exam). Study materials are not furnished.

Registration is \$475 per person, which includes meals and classes. This fee does not include lodging and airfare (see HOTEL RESERVATION INFORMATION on the following page).

If you have any questions, please feel free to contact me at (517) 543-6400 ext. 3446 or via email at [Andrea.Hussey@spartanmotors.com](mailto:Andrea.Hussey@spartanmotors.com).

I look forward to seeing you at the 2012 Spartan Chassis Fire Truck Training Conference!

Sincerely,

  
Andrea Hussey  
Events & Promotional Strategist

SAVE THE DATE  
2013 FTTC  
OCTOBER 6-10

## INFORMATION CENTER

### CONFERENCE REGISTRATION

8:00 a.m. to 1:00 p.m. on Sunday, October 14th.

### SUPPLIER EXHIBITS

Supplier partner exhibits will be open at 11:30 a.m. on October 14th and during all breaks to allow you the opportunity to see what is new within your industry. Supplier exhibits will be open until 8:00 p.m. on Monday, October 15th.

### CLASSES

Classes will run from 1:00 p.m. to 4:30 p.m. on Sunday, October 14th; 8:30 a.m. to 4:30 p.m. on October 15th - 17th; and 8:30 a.m. to 12:00 p.m. on October 18th.

### EVT TEST

Testing on October 14th and October 18th will run from 8:30 a.m. to 12:30 p.m. EVT study materials are not furnished. See study guides at [evtcc.org](http://evtcc.org).

### DRESS CODE

Dress code is comfortable and casual for the entire week.

### TRANSPORTATION

If you are flying into Lansing Airport, there is a shuttle to and from the Radisson hotel. Lodging and class locations are all within walking distance.

## HOTEL RESERVATION INFORMATION

### RADISSON HOTEL - LANSING

111 North Grand Ave.  
Lansing, MI 48933

October 14th, 2012 - October 18th, 2012

**RESERVATIONS MUST BE MADE WITH THE HOTEL.**

**To receive your discounted group rate use the Promotional Code: SCEX12**

**Rate:\*\$110.00** (Rate Does Not Include 11% Tax)

Reservations may be made by calling **1 (800) 333-3333** and specifying group name and dates in Lansing, Michigan. Reservations may also be made by logging on to their web address at: [www.radisson.com/lansingmi](http://www.radisson.com/lansingmi).

Reservations made after October 5th, 2012 will be accepted on a space availability basis only.

Spartan Chassis, Inc. is pleased to include the following educational classes, many of which are hands-on, during the 2012 Fire Truck Training Conference. Classes are broken down into three different levels called Tracs; making it easier for participants to select the class most suitable for their educational desire. Please consider these Trac definitions when making class selections:

**TRAC 1** - Designed for individuals such as the Operator, Engineer or Equipment Officers that want to learn basic operation and maintenance at an introductory level.

**TRAC 2** - Designed for the Maintenance Technicians or people at the service repair level. Some classes are hands-on.

**TRAC 3** - Designed for the Heavy Repair Technicians who are interested in receiving hands-on, in-depth, technical training.

## TRAC 1 CLASSES

### CLASS 1 PRESSURE GOVERNORS

This class covers several Class 1 products including Captain, Total Pressure Governor, Vernier Throttle Systems and Tank Level Gauges. Students will receive a copy of the diagnostic video and trouble shooting guides. Presented by Rod Riska of Class 1/Hale Products Inc. 3 Hours. Limited to 40. Offered once.

### STARTING, CHARGING DIAGNOSTICS & BATTERY TECHNOLOGY

Cranking motors, alternator, bearing maintenance, modern battery technology and testing. Presented by Dennis Litchenstine the founder of Low Voltage. 3 hours. Limited to 30. Offered twice.

### CUMMINS ENGINE MAINTENANCE

Caring for your diesel, cooling systems, oil analysis, lube-fuel-air filtration, EGR (exhaust gas re-circulation), VGT (Variable Geometry Turbo), DPF (Diesel Particulate Filter) event, SCR (Selective Catalytic Reduction), DEF (Diesel Exhaust Fluid), urea and warranty coverage. Presented by Dale Eddy of Cummins Bridgeway LLC. 90 minutes. Limited to 30. Offered twice.

### FRC PRESSURE GOVERNOR

This class covers several products including Governor, Flowmeters, Tank Level Gauges and Vernier Throttle Systems. Presented by Rick Fix and Matt Pitzer of Fire Research Corporation. 90 minutes. Limited to 30. Offered twice.

### INTRODUCTION TO V-MUX MULTIPLEXING

The electrical system multiplexing networking process. Downloader: connectors, crimping terminals. Presented by Jeff Dilgren of Weldon Technologies. 90 minutes. Limited to 20. Offered eight times.

# CLASS DESCRIPTIONS

## TRAC 2 CLASSES

### AERIAL FIRE APPARATUS EVT F5

Covers EVT study guide for F5. Covers all aerial inspection NFPA 1914 and structural inspection. Presented by Jimmy Faulkner of Dallas Fire. 12 hours. Limited to 30. Offered once.

### AIR CONDITIONING MAINTENANCE

Class covers the working components of air conditioners and diagnosing failure cause and repair, testing, and pressures. Presented by Gary May of Spartan Customer and Product Support. 3 hours. Limited to 30. Offered twice.

### AIR SYSTEMS/BRAKES

Class covers ABS/ATC/RSC/ESC air compressor, air dryer, governor, parking, service brake valves and chambers. Hands-on class covering troubleshooting ABS, ATC and RSC codes from ECM. Presented by Chuck Wittenberg, Retired from Meritor WABCO. 4.5 hours. Limited to 40. Offered twice.

### ALLISON AUTOMATIC TRANSMISSION EVT F-6

EVT study guide for F-6. Presented by Al Conkle of O.A.E.V.T.. 6 hours. Limited to 30. Offered once.

### ALLISON TRANSMISSION MAINTENANCE

“Service Support for the Allison Transmission.” This session will begin with a brief overview of the World Transmission and Gen 4 followed by a hands-on chassis tour covering physical and electronic transmission-to-chassis interface, oil filter change procedure and utilization of the Allison oil level sensor. Additionally, the presentation will cover troubleshooting code extraction utilizing both the Shift Selector and diagnostic DOC tool. Code cards, service prognostics and mechanic tips booklet provided. Presented by Greg Sickmeier, Larry Dodson, Matt Lazier and Kevin Stauch, of Allison Transmission. 3 hours. Limited to 30. Offered three times.

### AMBULANCE & FIRE APPARATUS ELECTRICAL SYSTEMS EVT E2 & F4

Covers EVT study guide for EVT E2 and F4. Presented by Dennis Litchenstine, Founder of Low Voltage. 3 hours. Limited to 30. Offered twice.

### AMBULANCE DESIGN & PERFORMANCE EVT E1

This class covers EVT study guide for E1. Federal K and AMD standards will be reviewed. Proper electrical loads, payload calculation, weight distribution, heating, A/C and oxygen requirements. Presented by Terry Eckert of Eckert Enterprises. 6 hours. Limited to 30. Offered once.

### APPARATUS ELECTRICAL THEORY

Amps, Ohms, Volts, electrical principals and meter functions. “Bring your volt-meter.” Presented by Mike O’Neil of Spartan Customer and Product Support. 3 hours. Limited to 30. Offered three times.

### BATTERY CONDITIONERS & AIR PUMPS

Maintenance & troubleshooting auto ejects, chargers, air pumps, and air ejects. Presented by Philip Sgroi of Kussmaul Electronics. 3 hours. Limited to 30. Offered once.

### BRAKES DISC/DRUM & ABA INSPECTION

Covers the components, operation, repair and preventative maintenance of Meritor Q Plus brake, Cast Plus brake, ABA (Automatic Brake Adjusters.), standard and long stroke brake chambers and air disc brake products. Commercial Vehicle Safety Alliance (CVSA) inspection criteria will also be discussed. Presented by Rick Martin of Meritor and Gary May of Spartan Customer and Product Support. 3 hours. Limited to 30. Offered twice.

### CATERPILLAR ENGINE MAINTENANCE

Preventative engine maintenance, overhead adjustments and trouble shooting with ET software of CAT ACERT Technology. Presented by Gordon Bennett of Michigan CAT and Chris Line of Spartan Engineering. 3 hours. Limited to 30. Offered once.

### CHASSIS ELECTRICAL TROUBLESHOOTING

General wiring issues, multiplexed gauges, pressure governor, throttle interlocks, high idle, load management and troubleshooting chassis/cab. Presented by Mike O’Neil of Spartan Customer and Product Support. 3 hours. Limited to 30. Offered four times. (It is suggested you take the Introduction to Chassis Electrical Systems prior to this class.)

### ELECTRONIC STABILITY CONTROL

Class covers ESC components - yaw sensor, steer angle sensor, lateral accelerometer, ECU, and brake valves. ESC fault code troubleshooting and inspection of related components. Presented by Todd Chapman Customer and Product Support. 90 Minutes. Limited to 40. Offered twice.

### AKRON VALVES & NOZZLES REBUILD

Tear down and rebuild valves, nozzles and discuss monitor repair. Presented by Jeff Benson and Tim Vanfleet of Akron Brass. 90 minutes. Limited to 30. Offered twice

### FIRE APPARATUS DESIGN & PERFORMANCE EVT F2

EVT class study guide for F2. Presented by Al Kloha of Circle K Service. 3 hours. Limited to 30. Offered once.

### FIRE PUMPS & ACCESSORIES EVT F3

Covers EVT study guide for F3. Presented by Gregg Geske of Waterous. 90 minutes. Limited to 30. Offered twice.

### FOAM & CAFS EVT F7

Covers EVT study guide for F7 CAFS delivery system including troubleshooting and repair of foam metering and compressed air foam systems. Presented by Gregg Geske of Waterous and Al Conkle of O.A.E.V.T. 6 hours. Limited to 40. Offered once

### HYDRAULIC GENERATORS

Class covers PTO Pump, motors, generator, filters and cooling. Presented by Eric Bollensen of Cummins Onan. 90 minutes. Limited to 40. Offered twice.

### INTRODUCTION TO CHASSIS ELECTRICAL SYSTEMS DESIGN

Electrical component locations, schematic reading, new cab electrical components, chassis power and common ground, shielding, canceling practices for clean communications and how to identify your electrical system. Presented by Chris Line and Todd Chapman of Spartan Customer and Product Support. 3 hours. Limited to 30. Offered four times.

### ROLL-TEK

Do’s and don’ts of occupant inflatable curtain airbags covering integrated roll sensor and integrated belt pretensioner. Presented by Andy Haigh of Spartan Chassis Customer Service and Norm Taylor & Chris Jessup of IMMI/Lifeguard Technologies. 90 minutes. Limited to 40. Offered twice.

### ROLL-UP DOORS

Trouble shooting installations, alignment and adjustment, tear down, lubrication and diagnostic of door ajar & light switches. Presented by Terry Bay and Larry Hanudel of R.O.M. Corporation. 90 minutes. Limited to 30. Offered twice.

### STEERING SYSTEMS

Steering system maintenance and service procedures, general operation, seal replacement, poppet valve adjustment, lash adjustment, approved fluids, lubricants and troubleshooting techniques. Presented by Johnathan Gerke and Ron Sichau of TRW. 3 hours. Limited to 30. Offered twice.

### SUSPENSIONS & HANDLING

This class covers suspension maintenance, torquing procedures for “U” bolts & hangers. cause and effect of handling issues of MFS and IFS axles; setting steering angle sensors. Rear axle thrust. Presented by Gary May of Spartan Customer and Product Support. 3 hours. Limited to 30. Offered once.

### VEHICLE MAINTENANCE, INSPECTION & TESTING EVT F1

This class covers study guide for F1 and will outline the EVT requirements of D.O.T. and 1911. Also covers the documentation of work completed, understanding out-of-service criteria and required inspection and testing. Presented by Gary May of Spartan Customer and Product Support. 3 hours. Limited to 30. Offered twice.

### VOGEL LUBRICATION SYSTEMS / ONSPOT CHAINS

Class covers grease, pump, distribution system meters lines and different types of timing clocks. Presented by Roberta Reynolds of Vogel Lubrication. OnSpot Chains discusses the installation, set-up and maintenance. Presented by Danny Graham of OnSpot. 90 minutes. Limited to 40. Offered twice.

## TRAC 3 CLASSES

### CUMMINS ELECTRONICS INTRODUCTION

New product updates, troubleshooting fault codes and symptoms. Familiarization to hands-on troubleshooting with electronic service tools. Engine integration and multiplexing. Pressure governor management updates. Presented by Dale Eddy of Cummins Bridgeway LLC. 3 hours. Limited to 30. Offered twice

### COMMAND LIGHT TROUBLESHOOTING

Class covers sensors, actuators and rotation motors using the handheld control lights as diagnostic devices. Presented by Kevin Schuessler and Steve Tinberg of Command Light. 90 minutes. Limited to 15. Offered twice.

### DETROIT DIESEL 71-92 AND SERIES 60

Focus will be on 8V-92 and pre-EGR Series 60 engines. Class will be designed for technicians working on engines that are several years old and will cover diagnosing faults on DDEC I/II/III systems, maintenance for older vehicles, overhaul criteria and electronic/mechanical troubleshooting. Presented by Al Conkle of O.A.E.V.T. 6 hours. Limited to 20. Offered once.

### DARLEY PUMP REBUILD

Hands-on repair and maintenance of Darley LDM pump with primer, relief valve, ball valve and drain valve design and operation troubleshooting are covered. Presented by Lairy Normand and Al Kloha of WS Darley. Part 1, Part 2. 6 hours. Limited to 15. Offered once.

### DRIVE TRAIN

Drive angle studies for pump and carrier bearings, axle bearings, wheel bearings, and pinion angles. Presented by Brian Tome of Spartan Customer and Product Support. 3 hours. Limited to 30. Offered once.

### HALE PUMP REBUILD

Preventative maintenance & overhaul on Hale pumps. Power point and hands-on presentation of pump tear-down, primers, valves and new developments in fire pumps. Presented by Paul Kling of Hale. 12 hours. Limited to 20. Offered once.

### MULTIPLEXING NODE TROUBLESHOOTING

The electrical system multiplexing troubleshooting process, including checking input and output signals. How to use jumper wires to verify proper operation and continuity. Using diagnostic software as an aid in troubleshooting multiplex circuits. A majority of this class will be hands on troubleshooting. Presented by Markus Kelley and Dennis Wilcox of Weldon Technologies. 90 minutes. Limited to 12. Offered eight times.

### TASK FORCE TIPS VALVES & NOZZLES REPAIR

Hands on work with TFT nozzles and intake valves. Troubleshooting, flow testing and service information will be covered. There is hands on repair involved in the diagnostics sections of the class. Presented by Mike Grcich and Eric Miller of Task Force Tips. 3 hours. Limited to 30. Offered once.

### TASK FORCE TIPS ELECTRONICS & RC COMPONENT TROUBLESHOOTING

Hands on troubleshooting, programming and diagnostics of all electrical monitors will be covered. Presented by Mike Grcich and Eric Miller of Task Force Tips. 3 hours. Limited to 30. Offered once

### TIRES & HANDLING

Tire nomenclature, loads vs. pressure, tire life, application of treads and emergency service effects, ride, sway/wander. Hands-on effect of wear. Presented by Bob Kimble and Phil Arnold of Michelin Tire. 3 hours. Limited to 30. Offered twice.

### U.L. FIRE PUMP TEST

Pump certification test per NFPA 1901. Presented by Al Kloha of Circle K Services. 3 hours. Limited to 30. Offered once.

### WATEROUS PUMPS REBUILD

Overview of centrifugal fire pumps, theory, transmissions, primers, valves, intake and discharge relief systems. Hands-on tear down of model CM Series, two-stage pump with Y-series chain drive transmission. Presented by Mark Blake of Waterous. 12 hours. Limited to 20. Offered once.

### WHEEL END MAINTENANCE

Tear down and rebuild of wheel end, failure analysis, component inspection, clean up procedures, lube fill procedure, bearing torque, installation of wear rings and seals. Presented by Brian Tome of Spartan Customer and Product Support. 3 hours. Limited to 30. Offered once.

# 1<sup>ST</sup> FLOOR LOCATIONS


# 2<sup>ND</sup> FLOOR LOCATIONS

# GLASS SCHEDULE

\*Schedule subject to change.

Start Time	Hall A	Hall A	Room 101	Room 102	Room 103	Room 104	Gov. Room	Room 201	Room 202	Room 203	Room 204	Room 205	
8:30 a.m.			<b>EVT Testing</b> 8:30 a.m. – 12:30 p.m. NO BREAKS Download form at evtcc.org (site #MI101412)										
1:00 p.m.	Drive Train Trac 3 B. Tome	Brakes Disc/Drum and ABA Trac 2 G. May R. Martin	Tires & Handling Trac 3 P. Arnold B. Kimble	FRC Pressure Governor Trac 1 R. Fix M. Pitzer FRC Pressure Governor Trac 1 R. Fix M. Pitzer	Roll-Up Doors Trac 2 T. Bay L. Hanudel Roll-Up Doors Trac 2 T. Bay L. Hanudel		Intro to Chassis Electrical Systems Design Trac 2 T. Chapman C. Line	Apparatus Electrical Theory Trac 2 M. O'Neil		Introduction to V-Mux Multiplexing Trac 1 J. Dilgren	Multiplexing Node Troubleshooting Trac 3 M. Kelley D. Wilcox	Starting, Charging Diagnostics & Battery Technology Trac 1 D. Litchenstine	
3:00 p.m.										Introduction to V-Mux Multiplexing Trac 1 J. Dilgren			
8:30 a.m.	HalePump Rebuild Trac 3 P. Kling	Darley Pump Rebuild Trac 3 L. Normand A. Kloha	Brakes Disc/Drum and ABA Trac 2 G. May R. Martin	Tires & Handling Trac 3 P. Arnold B. Kimble	Foam & CAFS EVT F7 Trac 2 G. Geske A. Conkle	Aerial Fire Apparatus EVT F5 Trac 2 J. Faulkner	Intro to Chassis Electrical Systems Design Trac 2 T. Chapman C. Line	Apparatus Electrical Theory Trac 2 M. O'Neil	Class 1 Pressure Governors Trac 1 R. Riska	Introduction to V-Mux Multiplexing Trac 1 J. Dilgren	Multiplexing Node Troubleshooting Trac 3 M. Kelley D. Wilcox	Starting, Charging Diagnostics & Battery Technology Trac 1 D. Litchenstine	
10:30 a.m.										Introduction to V-Mux Multiplexing Trac 1 J. Dilgren			
1:00 p.m.			EVT F1 Maintenance, Inspection, & Testing Trac 2 G. May	Allison Transmission Maintenance Trac 2 G. Sickmeier L. Dodson M. Lazier K. Stauch	Cummins Engine Maintenance Trac 1 D. Eddy Cummins Engine Maintenance Trac 1 D. Eddy		Introduction to V-Mux Multiplexing Trac 1 J. Dilgren	Multiplexing Node Troubleshooting Trac 3 M. Kelley D. Wilcox	Ambulance & Fire Apparatus Electrical Systems EVT E2 & F4 Trac 2 D. Litchenstine				
3:00 p.m.							Intro to Chassis Electrical Systems Design Trac 2 T. Chapman C. Line	Apparatus Electrical Theory Trac 2 M. O'Neil	Cummins Engine Maintenance Trac 1 D. Eddy	Introduction to V-Mux Multiplexing Trac 1 J. Dilgren	Multiplexing Node Troubleshooting Trac 3 M. Kelley D. Wilcox	Ambulance & Fire Apparatus Electrical Systems EVT E2 & F4 Trac 2 D. Litchenstine	
8:30 a.m.	Detroit Diesel 71, 92, and 60 Trac 3 A. Conkle	EVT F1 Maintenance, Inspection, & Testing Trac 2 G. May	Allison Transmission Maintenance Trac 2 G. Sickmeier L. Dodson M. Lazier K. Stauch	Fire Pumps & Accessories EVT F3 Trac 2 G. Geske Fire Pumps & Accessories EVT F3 Trac 2 G. Geske	Command Light Troubleshooting Trac 3 K. Schuessler S. Tinberg Command Light Troubleshooting Trac 3 K. Schuessler S. Tinberg	Intro to Chassis Electrical Systems Design Trac 2 T. Chapman C. Line	Vogel Lubrication Systems/OnSpot Chains Trac 2 R. Reynolds D. Graham Vogel Lubrication Systems/OnSpot Chains Trac 2 R. Reynolds D. Graham	Cummins Electronics Introduction Trac 3 D. Eddy	Air Systems/Brakes Trac 2 C. Wittenberg	Multiplexing Node Troubleshooting Trac 3 M. Kelley D. Wilcox	Ambulance & Fire Apparatus Electrical Systems EVT E2 & F4 Trac 2 D. Litchenstine		
10:30 a.m.										Multiplexing Node Troubleshooting Trac 3 M. Kelley D. Wilcox			
1:00 p.m.			Suspensions & Handling Trac 2 G. May	Allison Transmission Maintenance Trac 2 G. Sickmeier L. Dodson M. Lazier K. Stauch			Cummins Electronics Introduction Trac 3 D. Eddy	Introduction to V-Mux Multiplexing Trac 1 J. Dilgren		Multiplexing Node Troubleshooting Trac 3 M. Kelley D. Wilcox		Fire Apparatus Design & Performance EVT F2 Trac 2 A. Kloha	
3:00 p.m.						Chassis Electrical Troubleshooting Trac 2 M. O'Neil	Battery Conditioners & Air Pumps Trac 2 P. Sgroi	Cummins Electronics Introduction Trac 3 D. Eddy	Introduction to V-Mux Multiplexing Trac 1 J. Dilgren	Multiplexing Node Troubleshooting Trac 3 M. Kelley D. Wilcox	Fire Apparatus Design & Performance EVT F2 Trac 2 A. Kloha		
8:30 a.m.	Caterpillar Engine Maintenance Trac 2 G. Bennett C. Line Waterous Pumps Rebuild Trac 3 M. Blake	Hydraulic Generators Trac 2 E. Bollensen Hydraulic Generators Trac 2 E. Bollensen	Allison Transmission EVT F6 Trac 2 A. Conkle	Air Conditioning & Maintenance Trac 2 G. May Air Conditioning & Maintenance Trac 2 G. May	Ambulance Design & Performance EVT E1 Trac 2 T. Eckert	Chassis Electrical Troubleshooting Trac 2 M. O'Neil	Roll-Tek Trac 2 A. Haigh C. Jessup N. Taylor	Steering Systems Trac 2 J. Gerke R. Sichau	Introduction to V-Mux Multiplexing Trac 1 J. Dilgren	Multiplexing Node Troubleshooting Trac 3 M. Kelley D. Wilcox	U.L. Fire Pump Test Trac 3 A. Kloha		
10:30 a.m.							Roll-Tek Trac 2 A. Haigh C. Jessup N. Taylor						
1:00 p.m.							Wheel End Maintenance Trac 3 B. Tome	Akron Valves & Nozzles Rebuild Trac 3 Van Fleet/Benson Akron Valves & Nozzles Rebuild Trac 3 Van Fleet/Benson				Air Conditioning & Maintenance Trac 2 G. May	Electronic Stability Control Trac 2 T. Chapman Electronic Stability Control Trac 2 T. Chapman
3:00 p.m.						Chassis Electrical Troubleshooting Trac 2 M. O'Neil	Electronic Stability Control Trac 2 T. Chapman	Steering Systems Trac 2 J. Gerke R. Sichau	Air Systems/Brakes Trac 2 C. Wittenberg	Multiplexing Node Troubleshooting Trac 3 M. Kelley D. Wilcox	TFT Valves & Nozzles Repair Trac 3 M.Grich E. Miller		
8:30 a.m.			<b>EVT Testing</b> 8:30 a.m. – 12:30 p.m. NO BREAKS Download form at evtcc.org (site #MI101812)					Chassis Electrical Troubleshooting Trac 2 M. O'Neil			Multiplexing Node Troubleshooting Trac 3 M. Kelley D. Wilcox	TFT Electrical RC Component Troubleshooting Trac 3 M.Grich E. Miller	
10:30 a.m.													

Trac 1 – Designed for individuals such as the Operator, Engineer or Equipment Officers that want to learn basic operation and maintenance at an introductory level.  
 Trac 2 – Designed for the Maintenance Technicians or people at the service repair level. Some classes are hands-on.

Trac 3 – Designed for the Heavy Repair Technicians who are interested in receiving hands-on, in-depth, technical training.  
 – Denotes required courses for facilities seeking Spartan Re-Authorization or facilities seeking new Spartan Authorization Status.

