

# CASTO Mechanic/Supervisor Workshop

## Program Synopsis

July 6th and 7th

South Lake Tahoe High School



### Thursday, July 6th

<b>7:00 – 7:30 am</b>	<b>Registration/Continental Breakfast</b>	<b>GYM</b>
<b>7:30 – 8:00 am</b>	<b>Welcome, Jennifer Hanshew, CASTO President</b>	<b>Theater</b>
<b>7:30 – 8:00 am</b>	<b>America’s Best Technician Competition and Briefing</b>	<b>Theater</b>
<b>8:00 – 9:30 am</b>	<b>Allison Transmission Training Pupil Transport Series (Part 1)</b>	<b>SU2 - Angora room</b>

Instructor: Ronald Pasquetti

This training is a four part series that will take you through Preventative Maintenance, Prognostics, Diagnostics and Fuel Sense for the Allison Transmission

<b>8:00 – 9:30 am</b>	<b>DES After Treatment Exhaust Systems</b>	<b>SU3- Cascade room</b>
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Instructor: Steve “Junior” Stratton

We will start with what a DPF is and what SCR is, The difference between the two, we will discuss DPF operation in relation to engine, filter, and SCR issues. We will discuss the most common engine failures and how they affect filter regeneration. What each part does and how they work together. We will look at and dive into filter inspections and our cleaning process, why we inspect filters the way we do. As well as filter cleaning equipment that is available. Best cleaning practices.

<b>8:00 – 9:30 am</b>	<b>ACT Cooling Certification (Part 1)</b>	<b>SU4 - Fallen Leaf room</b>
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Instructors: John Lucas

American Cooling Technology (ACT) will conduct an Air Conditioning class related to refrigeration cycles, component definitions and preventative maintenance procedures. The class will also include troubleshooting guidelines, proper system charging as well as electrical review and leak detection.

### Supervisor Class

**Screening Room**

<b>8:00 - 9:30 am</b>	<b>Vehicle Maintenance Key Performance Indicators</b>
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Presenter: Tim Purvis, Transportation Director, Poway Unified School District. Evaluating specific shop data can assist in predicting vehicle maintenance and reducing costs. This program will focus on the data elements that can be most useful.

<b>9:30 – 10:15 am</b>	<b>Break/Trade Show</b>	<b>GYM</b>
<b>10:15 – 11:30 am</b>	<b>Allison Transmission Training Pupil Transport Series (Part 2)</b> Instructor: <u>Ronald Pasquetti</u> This training is a four part series that will take you through Preventative Maintenance, Prognostics, Diagnostics and Fuel Sense for the Allison Transmission	<b>SU2 - Angora room</b>
<b>10:15 – 11:30 am</b>	<b>Propane 101</b> Instructor: <u>Brian Hedmen</u> If there was ever an interest in Propane powered school buses now is the time to get some answers. This presentation will hit on the key topics like what offerings are out there, capabilities of a propane powered bus, maintenance and infrastructure.	<b>SU3- Cascade room</b>
<b>10:15 – 11:30 am</b>	<b>ACT Cooling Certification (Part 2)</b> Instructors: <u>John Lucas</u> American Cooling Technology, will conduct a session on Bus AC Repair Procedures. The session will include system familiarization, preventative maintenance guidelines and troubleshooting techniques. In addition, the session will also cover leak detection as well as inspection of defective parts to avoid future reoccurrences.	<b>SU4 - Fallen Leaf room</b>
	<b><u>Supervisor Class</u></b>	<b>Screening Room</b>
<b>10:15 - 11:30 am</b>	<b>The Marvels of Vehicle Maintenance Software Systems</b> Presenter: <u>Greg Marvel</u> , Owner, TransTraks Vehicle maintenance software systems can assist in KPI and management reports. Reduced costs and a more robust vehicle maintenance program will be the result.	
<b>11:30 – 1:00 pm</b>	<b>Lunch/Trade Show</b>	<b>GYM</b>
<b>1:00 – 2:30 pm</b>	<b>Allison Transmission Training Pupil Transport Series (Part 3)</b> Instructor: <u>Ronald Pasquetti</u> This training is a four part series that will take you through Preventative Maintenance, Prognostics, Diagnostics and Fuel Sense for the Allison Transmission	<b>SU2 - Angora room</b>
<b>1:00 – 2:30</b>	<b>Clean Diesel Fuel Management</b> Instructor: <u>Danny Stephens</u> Fuel costs account for 40% of fleet overhead. Modern Injector designs have become more sophisticated and have requirements to perform at optimum levels. Emissions control is also an important concern for contemporary fleets. This class will update you on fuel cleanliness standards, identify the top performance limitations, and share strategies to avoid while increasing fuel economy and maximizing performance.	<b>SU3- Cascade room</b>

- 1:00 – 2:30 pm**      **ACT Cooling Certification (Part 3)**      **SU4 - Fallen Leaf room**  
 Instructors: John Lucas  
 American Cooling Technology (ACT) will conduct an Air Conditioning class related to refrigeration cycles, component definitions and preventative maintenance procedures. The class will also include troubleshooting guidelines, proper system charging as well as electrical review and leak detection.
- Supervisor Class**      **Screening Room**
- 1:00 – 2:30 pm**      **The benefits of ASE Mechanic Certification**  
 Presenter: Walt Commans, Western States Consultant, Automotive Service Excellence (ASE). There is no requirement for school bus technician certification in California. ASE has a very well-respected maintenance technician testing and certification program that can ensure your buses are maintained by skilled professionals
- 2:30 – 3:15 pm**      **Break/Trade Show (Last chance to see the Trade Show)**      **GYM**
- 3:15 – 4:45 pm**      **Allison Transmission Training**      **SU2 - Angora room**  
**Pupil Transport Series (Part 4)**  
 Instructor: Ronald Pasquetti  
 This training is a four part series that will take you through Preventative Maintenance, Prognostics, Diagnostics and Fuel Sense for the Allison Transmission.
- 3:15 – 4:45 pm**      **Ricon Wheelchair Lift Systems**      **SU3- Cascade room**  
 Instructor: Larry McNutt  
 From the heavy-duty Titanium Line of S-Series and K-Series to the high-visibility KlearVue and FMVSS wheelchair lifts, Ricon sets the industry standard. This training session will cover general electrical, lift adjustments, repair and troubleshooting.
- 3:15 – 4:45 pm**      **ACT Cooling Certification (Part 4)**      **SU4 - Fallen Leaf room**  
 Instructors: John Lucas  
 American Cooling Technology, will conduct a session on Bus AC Repair Procedures. The session will include system familiarization, preventative maintenance guidelines and troubleshooting techniques. In addition, the session will also cover leak detection as well as inspection of defective parts to avoid future reoccurrences.
- Supervisor Class**      **Screening Room**
- 3:15 – 4:45 pm**      **NCAQMD Is there a free bus in your future?**  
 Presenters: Erin Squires, Program Manager, North Coast Air Quality Management District & John Clements, the Electric Bus Evangelist  
 The North Coast AQMD has recently announced a school bus grant replacement program. It will likely be the first of many annual offerings. There are also other sources of funding. There will also be a discussion of the practical and available technology.

**Friday, July 1**

**8:30-9:00**

**Continental Breakfast**

**9:00 – 10:15 am**

**CHP Motor Carrier Updates**

**Theater**

Instructors: Rick Burgess & Mark Gangler

CHP Motor Carrier Division Commercial and Technical Section

Description: This program will provide an overview of school bus vehicle maintenance requirements under Title 13 of the California Code of Regulations. It will review the elements of a terminal inspection. In addition the program will provide updates on any new information from the Commercial and Technical Section of the CHP that oversees local Motor Carrier Inspectors that may be important for school bus operators to know.

**10:15 – 10:45 am**

**America's Best Technician Competition Awards**

**Theater**

**10:45-11:00 am**

**Closing Remarks & Door Prizes**

**Theater**