

FAQs:

***Where to register:
powertrainexpo.com***

***Where your classes are:
tinyurl.com/aapex-schedule***

***Where to stay:
tinyurl.com/aapex-attendee-hotels***

***Where to eat:
venetianlasvegas.com/restaurants***

***Where to hang out:
tinyurl.com/things-to-do-in-vegas***

***Where to stay connected:
tinyurl.com/ATRA-FB
tinyurl.com/AAPEX-FB***



**Powertrain
expo
2024**

***VEGAS IS WAITING
ARE YOU READY?***

AAPEX 2024 KEYNOTE BREAKFAST

Tuesday Morning Huddle: The New Industry Titans

***Moderated by American Sportscaster and
Television Personality, Erin Andrews***

***Tuesday, November 5
6:30am-8:45am***

***Reserve your table today!
tinyurl.com/AAPEX-keynote-reservation***



**Powertrain
expo
2024**

ATRA CLASSES

Jim Dial and Bob Warnke (Tuesday, November 5, 2pm-4pm)

5, 6, 7, 8 and 10-speed Controls, Driveability Complaints and Common Failures

If you work on late model transmissions, you don't want to miss this presentation! Jim and Bob team up to provide insight into the root cause of common driveability complaints and unit failures involving late-model vehicles. They will share processes and techniques to first identify and isolate the symptoms associated with various failures and driveability complaints. Then, they will take you directly to areas of concern inside these units that are responsible for the issues, as well as the associated fixes.

Steve Garrett (Tuesday, November 5th, 4pm-6pm)

Diagnosing Electrical Intermittents

Diagnosing intermittent vehicle concerns are the most difficult tasks that any shop has to deal with. As more and more electronics are added to vehicles, the need to know where to locate the issue as well as how to test for the concern are paramount in your shop's success. This course will address the strategies and tools that can be employed to help you attack an intermittent electrical concern no matter the brand of vehicle or which type of vehicle system you are attempting to repair.

Tony Gonyon and Bill Anthony (Wednesday, November 6th, 8am-10am)

Ford 6R80/10R80 Transmission Calibration Overview using HP Tuners Software/Hardware

This class focuses on the hardware and software needed to perform custom tuning for Ford 6 and 10-speed transmission calibrations. Tony will introduce the hardware, software, and functionality of the tuning tool including its capability to perform OEM level diagnostics. He will also explore tuning Ford 6 and 10-speed units to compensate for common driveability complaints.

Francisco Moreno (Wednesday, November 6, 10am-12pm)

ZF Generation IV 8HP Transmission: Overview and Comparison

Welcome to the ever-changing world of transmissions. In this class, we'll explore the latest addition to the ZF transmission line: The Gen IV 8HP. Throughout this class, we'll investigate its newest features and revisions, comparing them with previous models and highlighting significant changes. Engineers continually strive to push boundaries with major upgrades and the Gen IV 8HP is no exception.

After completing this training, participants will be able to:

- *Identify the major components and sub-systems related to the gen IV 8HP.*
- *Describe the major differences between the previous models and the new Gen IV.*
- *Have a general understanding of the latest upgrades and how they will affect the current automotive market.*

Sean Boyle (Wednesday, November 6th, 12pm-2pm)

Shift Anatomy of Modern Transmissions

Transmissions have become quite complex with advanced electronics and operating strategies. In this session, we will dive deep into the design and operation of common transmissions, such as the GM/Ford 10 speed, GM's 8L90, and the ZF 9HP. I will also share some results from using Tuning programs used to change the operating strategies along with their direct effect on transmission pressures and timing.

Pepe Torres (Thursday, November 7th, 8am-10am)

Blame it on the Tuner, Part 6

This class takes a real-world look at what it takes for transmissions to stand up to high-performance and modified diesel and gasoline engines. This year, we will examine the following:

- *A look into 6BRFE pressure management and unit modifications.*
- *8L90 performance modifications and corresponding software tuning*
- *Aisin AS68RC and AS69RC modifications to match tuned engine torque*
- *How to choose the correct torque converter stall RPM and total clutch linings for diesel and gasoline high performance applications.*

John Parmenter (Thursday, November 7th, 10am-12noon)

Tips and Tricks from the Builder's Bench

As vehicle systems become more complex, so do problems that come into our shops. We have one of the best in the industry bringing us current problems and fixes. John will walk through real-life cases that he has encountered and will help you navigate from identifying the source of the problem to the solution. He will also cover parts updates and other need-to-know building tips on several transmissions. Be prepared for an immersive, interactive class!



Powertrain
expo
2024

**AT
A
GLANCE**

Monday 11/04

7:30am-5pm Registration Open

6pm-7:30pm AAPEX Reception

Tuesday 11/05

6:30am-8:45am AAPEX Keynote Breakfast

7am-5pm Registration Open

9am-5pm AAPEX Exhibits Open

9am-5pm Joe's Garage Demos

2pm-4pm 5, 6, 7, 8 and 10-speed Controls, Driveability Complaints and Common Failures

4pm-6pm Diagnosing Electrical Intermittents

Wednesday 11/06

7:30am-5pm Registration Open

9am-5pm AAPEX Exhibits Open

9am-5pm Joe's Garage Demos

*8am-10am Ford 6R80/10R80 Transmission Calibration Overview using HP Tuners
Software/Hardware*

10am-12pm ZF Generation IV 8HP Transmission: Overview and Comparison

12pm-2pm Shift Anatomy of Modern Transmissions

5:30pm-7pm ATRA Social & Association Address

Thursday 11/07

7:30am-4pm Registration Open

9am-5pm AAPEX Exhibits Open

8am-10am Blame it on the Tuner, Part 6

10am-12pm Tips and Tricks from the Builder's Bench

