



## RAISE THE BAR WITH XL PARTS TRAINING CLINICS 2023

### CATALYTIC CONVERTERS: HOW THEY WORK & DIAGNOSTICS

**OCTOBER 19, 2023**  
**Holiday Inn Express OKC Airport**  
**4501 SW 15th St.**  
**Oklahoma City, OK 73108**

**FACTORY TRAINED INSTRUCTOR**  
**Dinner - 6:00 pm**  
**Clinic - 6:30 pm**  
**CLINIC COST: \$89.95**

#### Overview

Catalytic Converters: How They Work & Diagnostics

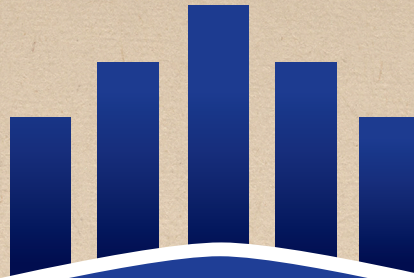
This clinic focuses on the skills and information a technician needs to diagnose catalytic converter problems and replace the catalytic converter.

- Catalytic Converter Construction, Function and Theory
  - How platinum and palladium oxidize Hydrocarbon and Carbon Monoxide
  - How rhodium reduces NOx
- Substrate, Catalyst Loading, Washcoat Technology
  - Advantages of Miso process over waterfall catalyst application
  - OEM VS Aftermarket vs CARB
- CARB regulations, VECI label identification
- How converters break down
  - Overheating from too much unburned fuel
  - Poisoned or fouled
  - Physical damage from road debris
- Fuel Trims and the Stoichiometric Ratio.
  - Catalytic converters require specific Air Fuel ratio to function correctly
  - How to measure long and short-term fuel trims
  - How to use LTFT as a diagnostic tool
- Catalytic Converter Diagnostics and Replacement
  - Visual Inspection Procedures
    - Overheated, poisoned/fouled, damaged?
  - Code reader and Scan tool diagnostics
  - MAF test
  - EGR inspection
  - Emission related TSB search
  - Top engine cleaning
- Oxygen and A/F Sensor Construction, Function and Diagnostics
  - O2 sensors vs Air Fuel sensors
  - Bench test
  - Metered propane test
  - Vacuum leak test
- AP Emissions features and benefits

### Clinic Registration

Register online by scanning the QR code or visiting our training webpage  
at: <https://www.xlparts.com/en/Training>





## RAISE THE BAR WITH XL PARTS TRAINING CLINICS 2023

**ACDELCO TRAINING CLINICS ARE  
FREE TO GM PARTNER PERKS  
MEMBERS.**

**8 SEATS INCLUDED IN OUR PRONTO  
SMART CHOICE PLUS PROGRAM! ASK  
YOUR XL PARTS SALES REPRESENTATIVE  
ABOUT IT TODAY!**

### COMPLETE SCHEDULE

Gives you the convenience to plan classes ahead.

### TOP INDUSTRY TRAINING

Instructors from Standard Motor Products, ACDelco, Delphi, Denso, Motorcraft and other top accredited industry trainers.

### GIVE YOUR FEEDBACK

Our entire training schedule is based upon the feedback we receive from you! We even add classes to our schedule throughout the year.

### 18 MONTH EXPIRATION

XL Parts gives you the flexibility to take the classes you want when it's convenient for you.

## TECHNICIAN CLINICS PRICING

### INDIVIDUAL SEATS

One Night Clinic: **\$89.95** | Two Night Clinic: **\$149.95**

### TRAINING PACKAGES

*Can be used in any combination*

SELECT YOUR PACKAGE

- ☐ **Package A**  
4 Seats - **\$300** ..... (\$75/class) **SAVE 16%**
- ☐ **Package B**  
8 Seats - **\$520** ..... (\$65/class) **SAVE 27%**
- ☐ **Package C**  
12 Seats - **\$660** ..... (\$55/class) **SAVE 38%**
- ☐ **Package D**  
16 Seats - **\$720** ..... (\$45/class) **SAVE 50%**

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