Hosted by: COCHRANE AUTOMOTIVE

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14th Year

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Lindertech is recognized as an INDUSTRY LEADER

Training Line: 416-236-1763

in high quality current advanced automotive training. It's the "REAL WORLD" training technicians need to repair today's complex vehicles

Fall 2019 - 4 Day Lindertech Training Event

Wednesday October 2, 2019 **Cochrane Shop** 73 Chauncey Ave. Toronto Thursday October 3, 2019 **Cochrane Shop** 73 Chauncey Ave. Toronto 73 Chauncey Ave. Toronto Friday October 4, 2019 **Cochrane Shop** Saturday October 5, 2019 Hilton Garden Inn 1870 Matheson Blvd. Mississauga ON L5W 0B3

1 Day Wed. Oct. 2, 2019 8:00am - 4:30pm Cochrane Shop

Instructor: Rick White 180 BIZ

Topic: Service Advisor A to Z Master Class

Your advisors are at it all day long but are they as effective as they could be? Are your sales what they could be?

180BIZ and Lindertech have teamed up to provide a powerful, unique learning experience designed for, and offered exclusively to Shop Owners and Service Advisors. This class goes beyond selling on the front counter by deep diving into the few things that make a HUGE difference in their performance and your sales. Your advisor will learn:

- The importance of the first impression and how to precisely manage it.
- How to really connect with the customer to build a relationship and be there to help.
- How to take a price conversation and turn it into a value conversation.
- The phone skills necessary to positively engage the customer and get the appointment.
- How to deal with price shoppers and sell diagnostic testing profitably.
- How to take advantage of the opportunities in delivering the vehicle and setting the next visit.

This is going to be a full day of interactive content and lively conversation that will move your advisor to the next level. This is specifically designed for YOU – don't miss out on this opportunity!

1 Day Thur. Oct. 3, 2019 8:00am to 4:30pm Cochrane Shop

AM: Instructor: John Shewbridge - Trainer for Hunter Engineering Topic: Modern Alignment Techniques

Areas to cover are:

- Changes in Mechanical repair
- How the many safety systems affect repair
- ADAS and its ramifications to repairs
- Alignment in the collision industry
- Liability and repair as per manufacturers' requirements
- What technology is available to aftermarket and collision shops to address these new technologies

Cochrane Automotive 73 Chauncey Ave. Toronto, Ont. M8Z 2Z2
Phone: 416-236-1763 Fax: 416-236-1764 e: headoffice@cochraneauto.ca www.cochraneauto.ca

PM: Instructor: Niel Speetjens - Technical Training Manager ZF Group Topic: Modern Chassis Technologies

The foundations of chassis dynamics, specifically different chassis angles, will be thoroughly examined, presenting details about the different chassis angles and their impact on different settings. To conclude, the theoretical foundation of Kamm's circle will be covered. Popular front chassis systems will be introduced discussing their advantages and disadvantages. The latest system is the multi-link system and will be reviewed in-depth. The influence of low friction ball joints to this modern chassis systems will be discussed. Electro-mechanical steering solutions will be summarized. The main focus is on the most popular electro-mechanical steering racks, namely axial parallel actuation (APA) and dual pinon type (DP). Explanations about the functions, diagnostics and the sensors will be covered. The initialization and activation procedure will be discussed.

After completing this training, the participant will be able to:

- Describe all geometric chassis angles
- Describe Kamm's circle
- Differentiate between popular chassis systems
- Describe multi-link suspension system
- Differentiate between electro-mechanical steering rack types
- Explain function of steering torque sensor
- Explain functions of the electro-mechanical-steering rack and its sensors
- Discuss the commonality of active return and wheel caster
- State the importance of straight line stability of steering systems

1 Day Fri. Oct. 4, 2019

8:00am to 4:30pm

Cochrane Shop

Instructor: Scot Manna

Topic: BMW Valvetrain Systems & Driveability Diagnostics

This 8hr class will cover BMW vehicles and their unique engine control platforms. The morning session will be devoted to covering the design, operation and testing of both Valvetronic variable valve lift systems and VANOS cam timing control systems. Normal scan tool data values as well as labscope testing will be discussed.

The afternoon will be devoted to using crankcase pressure measuring in testing and then a number of challenging case study diagnostics will be covered with an emphasis on using scan data and scopes to diagnose the root cause of the problems. This class will give any driveability technician more confidence in dealing with problems on these often misunderstood vehicles.

1 Day Sat. Oct. 5, 2019

8:00am to 4:30pm

Hilton Garden Inn

Instructor: John Thornton

AM Topic: Push Button Ignition

Push Button Ignition is very common on today's vehicles. These systems can be broken down into 3 broad categories: Immobilizer, Steering Lock and ACC/Run/Crank Relay Control. This class will assist technicians in developing a diagnostic routine for handling the common complaint of "I press the button and nothing happens".

The instructor will emphasize system understanding, and scan data interpretation. Tools used to check for Low Frequency and Radio Frequency wireless transmissions will also be discussed. Discussion Topics include the following vehicles: 2011 Nissan Maxima; 2012 Toyota Camry; 2018 Ford Edge; 2006 VW Passat; 2015 Ford Mustang. A detailed handout will be provided.

PM Topic: Gasoline Direct Injection Update: Operation & Diagnostics

GDI vehicles are common in today's service bays. This class will focus on the high pressure fuel system. Using a case study format, the two primary areas which will be covered are the high pressure fuel pump and the high pressure fuel injectors. A strong emphasis will be placed on scan data interpretation. Scope data will also be used to support scan tool data.

Discussion topics include the following: Gasoline Direct Injection Overview

High Pressure Pump Operation High Pressure Fuel Injector Operation

2009 Buick Enclave 3.6L HP Pump Diagnosis 2013 Ford Escape 1.6L GDI Lean Misfire

2012 Hyundai Sonata 2.4L HP Pump Diagnosis 2013 Chevy Caprice PPV 3.6L Misfire

2012 VW CC 2.0L HP Pump Diagnosis 2013 Ford Fusion Ecoboost 2.0L No Start

2015 Ford Fusion 1.5L HP Pump Diagnosis A detailed handout will be provided.

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Lindertech Training Registration Hosted by: Cochrane Automotive

4 Days...Wed. Oct. 2 to Sat. Oct. 5, 2019 8am to 4:30pm Training Line: 416-236-1763

Contact Info: Loah Cochrano at 416 236 1763 or omail: hoadoffico@cochranoauto

Wed-Thur-Fri Classes

Cochrane Automotive Shop 73 Chauncey Ave. Etobicoke, ON M8Z 2Z2 Shop: 416 236-1703

Sat. Class

Hilton Garden Inn 1870 Matheson Blvd. Mississauga, ON L5W 0B3 T 905-361-6300 Hotel Rooms: We have negotiated a special room rate of \$129.00 + tax. To get this rate call Leah Cochrane by Sept. 18 2019. Booking is under "Cochrane Automotive Lindertech". FREE PARKING. For those who are flying in, the hotel provides a free shuttle, but you have to call the Front Desk at 905-361-6300 to book your pick up and drop off 24 hours prior to arrival.

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If registering more than 3 students please print an additional registration form.										
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