



5-Day Product-Specific Workshop

Nissan Leaf, the Hyundai Ioniq (EV), Mitsubishi Outlander PHEV, Tesla Model S & 3

Presented By



Dates: August 9-13, 2021

Price: \$1,995.00

([AVTGNW](#) members receive a 15% discount)

Location: Portland Community College
12000 SW 49th Avenue, Portland OR 97219

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For Further course details and register:

www.futuretechauto.com/store/p84/5DPSW

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**For questions please contact the FutureTech
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About The Instructor - Yves Racette



Yves is a Professor at Comission Scolaire de Montreal (EMEMM), and technical trainer for automotive service since 1995. He is a certified Hybrid and EV training specialist. As a General Motors Certified Master trainer, he has given trainings in many parts of the world such as the Middle East, North America, Africa and Asia. All the trainings were conducted in Training Centers, Dealerships and private facilities according to the demand and the needs of everyone. He has built and produced curriculum, technical and non-technical training, for many organizations in the past 15 years. As demand grows he decided to create his own company to provide the quality training he believes in, and to answer the growing demand for training in Electric Vehicle and Hybrid Vehicle technology. For more about Yves Racette visit www.yracette.com.



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This course provides product-specific systems overviews, diagnostic techniques, service tips and repairs. Vehicles featured in this course include the Nissan Leaf EV, the Hyundai Ioniq EV, Mitsubishi outlander PHEV, Tesla Model S & Model 3.

Nissan Leaf:

The Nissan leaf was introduced in 2011 and is one of the most popular electric car for the masses. This section will cover an overview of the vehicle followed by more specific details on the components and how they operate. Technicians will know the Nissan Leaf Safety intervention, high voltage system operation and its controls. An overview of the 2013 to 2019 changes are covered.

- Introduction & Overview
- High voltage Safety and precaution
- High Voltage battery
- Powertrain (Motor and Reducer)
- Electronics (Inverter, DC to DC & OBC)
- Climate control System

Hyundai Ioniq EV :

The Hyundai Ioniq Electric Vehicle is equipped with several new technologies that require new diagnostic processes. This section will introduce and familiarize technicians on Hyundai's electric vehicle, including vehicle knowledge, operation, safety, vehicle systems, components and high voltage systems service and repairs.

- Overview & Features
- High voltage battery
- Motor & Motor control
- OBC & LDC (On board charger & DC-DC Converter)
- Climate Control

Mitsubishi Outlander PHEV and Tesla Model S & Model 3 :

Tesla:

The Model S is designed from the ground up to be the safest, most exhilarating sedan on the road. The Tesla Model 3 is the best-selling electric car in the world with unparalleled performance delivered through Tesla's unique all-electric powertrain. ,This section will introduce and familiarize technicians to the Tesla Model S and Model 3, components, high voltage battery information and details, high voltage awareness, motor and drivetrain design and details.

- Introduction and safety
- Charging and High voltage battery
- Motor and transaxle
- Power control unit (MCU/HCU/LDC)

Mitsubishi Outlander PHEV :

The world's first plug in hybrid SUV , the outlander is a ground breaking new model that brings together the superior environmental performance and quietness of an EV, and the stability and handling of a 4WD, and the particularity of an SUV, so that the driver can enjoy the benefits of EV driving.

- Overview Introduction and safety
- Different modes of operations
- Motor and transaxle
- Charging and High voltage battery
- Power control unit (MCU/HCU/LDC)