



Crossroads Truck and Bus Ltd

Training and Development

www.crossroads.co.uk

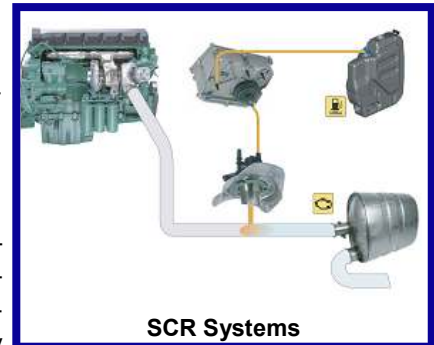
2010 Events

Training Course
Volvo Electronic Architecture Training

Diagnostic Development (advanced)

Modern Vehicles are fitted with advanced electronic control units and data links. The modern technician has to do more than just repair mechanical systems.

Crossroads Truck & Bus Can give our customers the right training to complement your Business



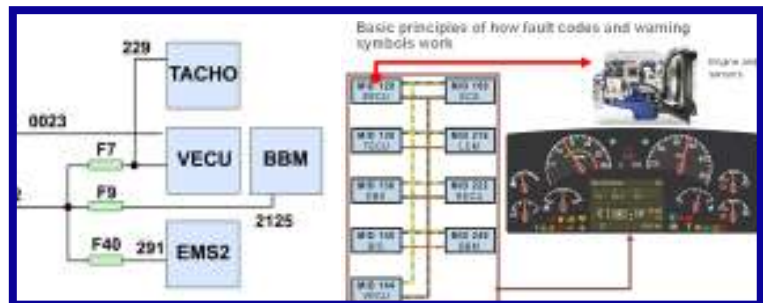
SCR Systems

Technician needs to know, basic electrics, wiring diagrams, data links and advanced aided diagnostics to be able to repair vehicles.

We understand that helping your technicians maintain and repair your vehicles will ensure reliability and increase uptime and profit from your Volvo Product.

Course duration is 10 days and is available through out the year.

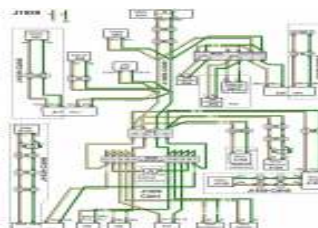
The course is designed for Technicians who have little electrical knowledge and develops the technician into understanding and repairing electronic systems.



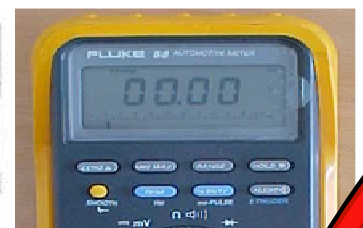
Understanding: Volvo Diagnostic and Test procedures



Understanding Fault codes



Understanding diagrams



Repairing the fault



Detailed course content on next page.....



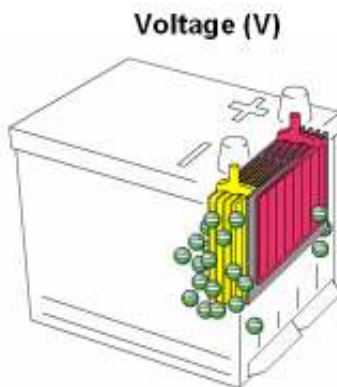
Training Course Volvo Electronic Architecture Training

Course Content:

Day 1:

Introduction to Basic Electrics

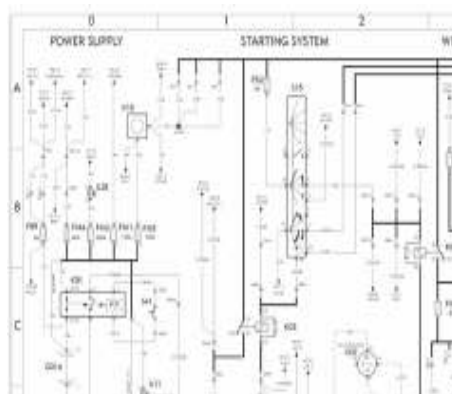
- Electrons
- Voltage, Watts and Current
- Multi-meters
- Resistance
- Series and Parallel circuits
- Voltage drop and Relay
- Ohms Law and Watts Law.



Day 2:

Volvo Wiring diagrams

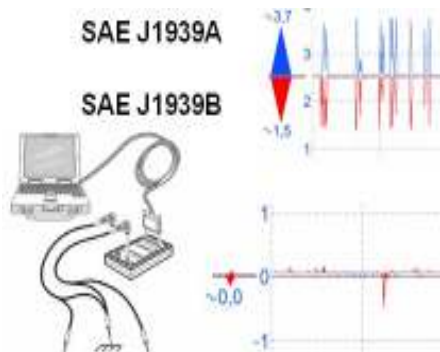
- How to read diagrams
- Locating components
- Identifying power paths
- Start circuits
- Charging circuits



Day 3:

Data Links

- Data Link Concepts
- Measuring Data link Values
- Diagnosing Data link Faults
- Oscilloscope Basics
- Analysis of data using Oscilloscopes



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Training Course

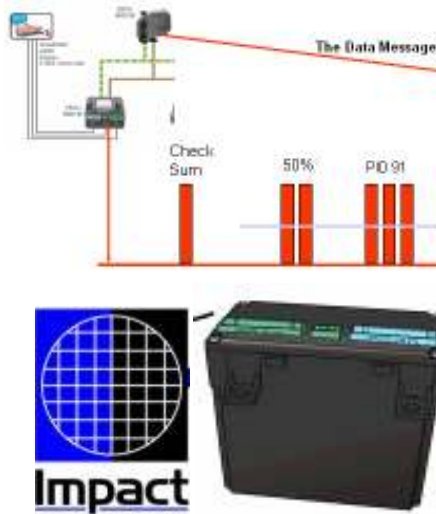
Volvo Electronic Architecture Training

Course Content:

Day 4:

Fault Codes

- The main reason for faults
- Understanding SAE standards
- Introduction to Impact
- Introduction to VCADS
- Introduction to GD
- VECU Functions.



Day 5:

Practical Tasks

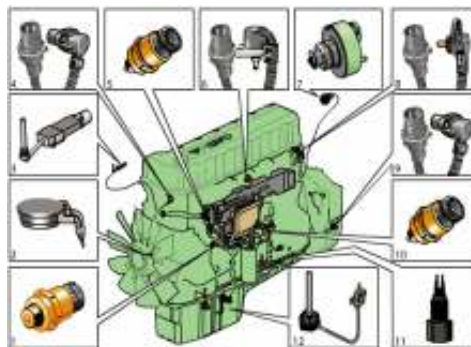
- Full day on vehicles systems
- Putting theory into practice
- Charging and starting faults
- VECU measurements.
- Recap



Day 6:

Engine Management

- Engine sensors and types
- Fault codes
- Oscilloscope cam and crank
- Fuel systems
- Unit injectors and VEB operations



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Training Course
Volvo Electronic Architecture Training

Course Content:

Day 7:

Air and Brake Systems

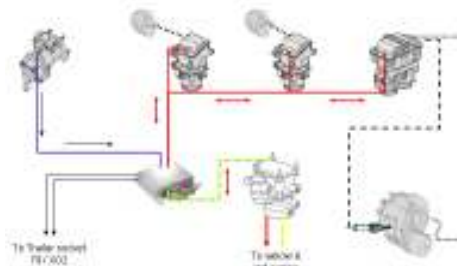
- Air valve components
- Port numbers
- Circuit diagrams
- Air build up



Day 8:

EBS

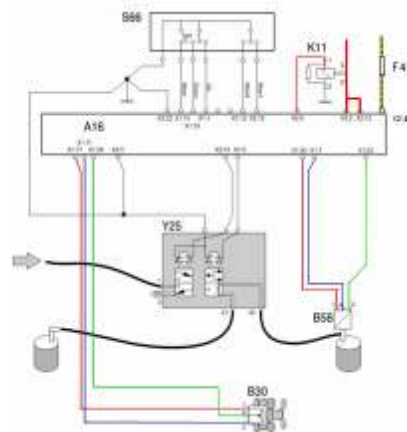
- Principles of EBS
- Components and diagnostics
- Practical Tasks



Day 9:

ECS

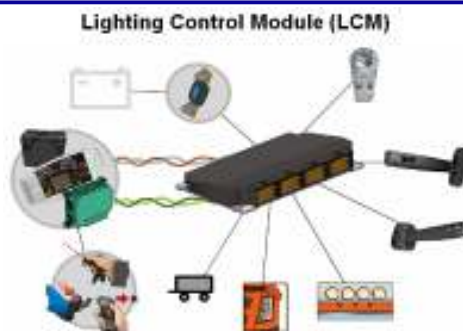
- Principles of ECS
- Components and diagnostics
- Practical Tasks



Day 10:

LCM

- Principles of the LCM
- Components and diagnostics
- Practical Tasks

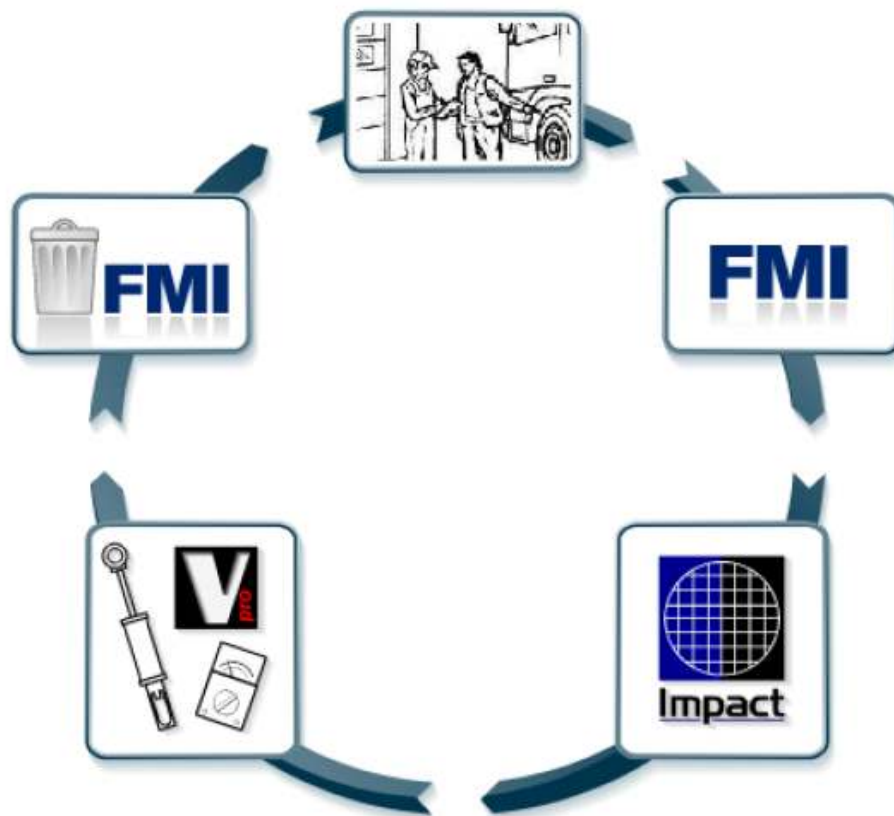


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Are your Technicians up to the challenge?

Contact: John Grist or Alan Barstow on 01924 425000 for more details

Email: john.grist@crossroads.co.uk **or** alan.barstow@crossroads.co.uk



This course is a opportunity for your technicians to understand, diagnose and repair Volvo vehicles with modern vehicle technology.

This includes: Lunch, course material and vast amounts of knowledge.

Special tools, multi-meters, Impact and equipment used throughout the course are not included in the price, but can be purchased separately from our parts department.

Crossroads Truck & Bus Limited

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