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COURSE INFORMATION

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IN ASSOCIATION WITH

THE MOTOR PROFESSIONALS’ MAGAZINE & VOICE OF THE SMTA

Scotsautoscene
1. VSE1 COURSE INTRODUCTION (BOSCH)
   A practical demonstration of some of the content available in the full VSE1 Essential Procedures Course available from Bosch, which provides a sound foundation knowledge of auto-electrical principles and fundamental test procedures using digital multimeters.

2. CAMERA AND RADAR BASED SYSTEMS & CALIBRATION (HELLA)
   A practical workshop demonstration of camera and radar system calibration using an allmakes aftermarket solution

3. BATTERIES (ADS)
   This presentation focuses on a much forgotten yet important key function, the cranking analysis of battery and starter systems. Understanding the true status of battery condition, health assessment and in service performance, and establishing a practical knowledge of voltage, current draw and rotation speed analysis. Phil Cockburn is a practicing automotive technician with a respected workshop near St.Andrews, so will bring some all-important local input to the first Autoinform held in Scotland.

4. AN INTRODUCTION TO OSCILLOSCOPE DIAGNOSTICS (PICOTECH)
   An introduction to oscilloscope diagnostics, where to start, what to do and how to succeed.

5. PREVENTABLE FAILURE PROGRAMMES FOR DIESEL ENGINES (BG)
   Direct Injection Engines, Deposits, solution and commercial opportunity.

6. REAL WORLD DIAGNOSTICS ON COMMON RAIL SYSTEMS (ADS)
   A 40 year veteran and expert providing an insight to practical diagnostics on common rail systems.

7. COMMON TIMING BELT AND WHEEL BEARING FITTING ERRORS (SCHAEFFLER)
   Tim Adams is a veteran belt drive and wheel bearing specialist, with an in-depth knowledge (and practical experience!) of the common problems in process and understanding. Tim will explain how to avoid expensive failures and maximise customer satisfaction.

8. ‘A NEW SERVICE WAY’ (ANDY SAVVA)
   Industry expert Andy Savva looks at workshop efficiency using methods which highlight waste whilst increasing customer value & service levels.
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2. SERIAL DIAGNOSTICS / INTERPRETING CAN DATA (ADS)
   Paul Marshall explains how to get the most from serial diagnostics, including the correct interpretation and assessment of CAN data nd PIDs.

3. MYTHS OF MISFIRE TESTING, TECHNIQUES & PROCESSES (ADS)
   This year, Frank Massey (industry legend and founder of Autoinform) looks at engine misfire assessment. He will focus on a wide range of causes including ignition anomalies, fuelling error and mechanical faults - relating these to correct tool choice, process and assessment.

4. TRANSMISSION SERVICING & REPROGRAMMING - MECHATRONICS
   This module will demonstrate the removal of the transmission sump, electrical connectors and the mechatronic unit, which can be performed with as part of the recommended ZF transmission oil service. Includes a practical explanation of the ZF philosophy with regards to transmission oil changes, the need for specific oils for specific transmissions and service kit options for different gearbox types. Also discussed will be the steps necessary to change and reprogramme a mechatronic unit on a ZF transmission, as well as commonly encountered problems and the incorrect diagnosis of faults as presented by customers.

5. HYBRID EVOLUTION - PAST, PRESENT & FUTURE (DENSO)
   Dave McCall answers a simple question: With 50,000 new registrations per quarter, can you afford to ignore this potential for new business?

6. PRACTICAL DIAGNOSTICS USING FAILURE SIMULATORS (EURO ACADEMY)

7. USING THE WEB TO PROMOTE YOUR BUSINESS (ADS)
   Dave Massey discusses the power of internet marketing, media awareness, and the positive effects it can have on the growth of your business.

8. E-MOBILITY, THERMAL MANAGEMENT & THE E-ARC STABILIZER (SCHAEFFLER)
   A detailed presentation looking at the vehicles of tomorrow, including a detailed look at modern cooling systems and the latest ‘E-ARC’ Electronic Arc Stabilization technology.
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3. BATTERY RECOGNITION, TESTING AND CHARGING (BANNER)  
Featuring AGM (Absorbent Glass Material) and Enhanced Flooded batteries, Stop-Start, fitment tips and common problems associated with charging techniques and testing procedures.

4. WHEEL BEARING TECHNOLOGY (NTN SNR)  
Mark Kidd takes a look at the development of wheel bearing technology and discusses the common causes of failure through the use of practical demonstrations.

5. AVOIDING DIAGNOSTIC ERRORS WITH CORE SKILLS TRAINING (ADS)  
Clive Atthowe, a 40 year industry veteran and expert, reflects on how too much reliance on unqualified data can lead to diagnostic errors, and how core skills training is still vital and relevant in today’s computer driven industry: “The connected car can lead to the disconnected technician!”

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7. HYBRID TECHNOLOGY (ADS)  
Peter Coombs introduces the very latest in online technician training programmes, with interactive assessments.

8. DUAL MASS FLYWHEELS (ZF)  
This training aims to show the effect of changing resistances in vehicle wiring systems as a result of the poor maintenance and installation of a vehicles earth points, which can have an impact on starting characteristics and ultimately lead to Dual Mass Flywheel failure. The latest DMF variants and technologies will be discussed, with an examination of their influence on damping engine vibrations as engineering demands increase.
1. **FIT AND FORGET WITH OESAA (OE SUPPLIERS AFTERMARKET ASSOCIATION)**
   Find out why choosing parts from OE suppliers can protect your reputation by protecting your customers from extra costs due to premature failure.
   Take a look at the real-life examples of OE vs ‘OE Quality’ products available in the aftermarket and ask yourself : “Would I fit it to my car?”

2. **AUTOMOTIVE TOOLS (PICHLER)**
   Tools and system repair solutions.

3. **AUTOMOTIVE TOOLS (SYKES-PICKAVANT)**
   Tools and system repair solutions.

4. **REPXPERT - BY EXPERTS. FOR EXPERTS. (SCHAEFFLER)**
   How the online workshop portal from Schaeffler can help your business in lots of ways!
   Not a member? Sign up for free on the day.

5. **ADD TRANSMISSION REPAIRS TO YOUR WORKSHOP MENU (SCHAEFFLER)**
   Ever thought about repairing gearboxes? Wouldn’t it be easier if there was an all-in-one repair solution available from a world leading OE supplier? Industry legend Bob Carter shows how you can profit from the award winning INA GearBOX. Everything you need to carry out a professional transmission repair - in just one box!

6. **AFTERMARKET BUSINESS SOFTWARE SOLUTIONS (MAMSOFT)**
   The leading aftermarket software specialists demonstrate their workshop software solutions.

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