PROMOTE YOUR PROFESSIONAL GROWTH
by training with the Plastic and Rubber Experts

BASIC TYRE TECHNOLOGY

SHORT COURSE AT:
SMITHERS RAPRA, SHAWBURY, UK
1 MAY 2019
1 DAY COURSE
COURSE OVERVIEW

This introductory tyre technology course will cover the fundamental aspects of the design, materials, construction and operation of modern pneumatic vehicle tyres.

The course content will provide the delegate with an introductory understanding of the process by which the tyre is designed and manufactured, the materials used in tyre construction, and how the tyre achieves its performance requirements when in service.

COURSE CONTENT

- The history of the pneumatic tyre
  A brief overview of the history and development of the modern pneumatic tyre.

- Tyre types, construction and development
  Introduction to pneumatic tyres in general, including key tyre categories and their usage. Also covered will be the components of a tyre and their function. The process and purpose of tyre development.

- Rubber materials in tyres
  A description of the elastomeric materials used in pneumatic tyres and their function. An introduction to compounding and rubber compound physical properties in relation to tyres and tyre performance.

- Tyre cord reinforcing materials
  How and why textile and steel tyre cord materials are used in the construction of a tyre and how their properties relate to the function of the tyre.

- The tyre manufacturing process
  This will consider the full extent of the tyre manufacturing process, starting with the raw materials, rubber compound mixing and processing, tyre building, vulcanisation and final inspection.

- Key tyre performance properties
  An overview of how the properties of the tyre relate to its performance on the road. Tyre performance related topics covered will include rolling resistance, traction, noise, abrasion resistance and ride comfort.

- Tyre testing
  An introduction to indoor and outdoor tyre testing, and its purpose.

- The future of the pneumatic tyre
  A look at developing tyre technologies, from tyre pressure monitoring, through airless tyres to the smart tyre. Also covered will be the components of a tyre and its function and the process and purpose of tyre developments.

COURSE PRESENTER

This course will be presented by Gary S. Crutchley who has over 20 years of experience working in and with the tyre industry.

WHO WILL BENEFIT?

Those new to or working with tyres on a day-to-day basis and who need to gain a broad understanding of the fundamental technology and principles of pneumatic tyres, how they are constructed and how they perform in service.

LEARNING OUTCOMES

This course will be of benefit to anyone requiring an overview of the basic aspects of the design, materials and operation of pneumatic vehicle tyres. It will provide a broad overview of pneumatic tyres and tyre technology. The delegate will receive an appreciation of how the tyre performs and how its construction enables it to achieve the required performance.

COURSE FEE

£525 + VAT, includes course manual, lunches and refreshments, accommodation not included.
### Registration Form

Please reserve a place on the **Basic Tyre Technology** Course:

- [ ] 1 May 2019

(please use one form per delegate, photocopies are acceptable)

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**PAYMENT INFORMATION**

Please indicate in which currency you wish to pay. If no box has been ticked the default currency will be £ Sterling.

- [ ] £ Sterling
- [ ] € Euro (this will be applicable at the prevailing rate)
- [ ] $ US (this will be applicable at the prevailing rate)

Please invoice my company - Purchase Order Number* Please enter your company Reg. no.: Please enter your company VAT no.:

*Please note company name on PO must state: **Smithers Rapra and Smithers Pira Ltd**

- [ ] Cheque/Bank Transfer
- [ ] Credit Card Payment:  
  - [ ] MasterCard
  - [ ] Visa
  - [ ] American Express (please indicate)

**CARD NUMBER**

- [ ] Card number: 
- [ ] Name on Credit Card (in CAPITALS) 
- [ ] Signature: 

**CANCELLATION TERMS** By completing and returning this form delegates are agreeing to be bound by the cancellation terms and conditions of registration.

**RETURN TO:**

Smithers Rapra, Shawbury, Shrewsbury, Shropshire, SY4 4NR, United Kingdom. Enquiries **Tel: +44 (0)1939 252312 Fax: +44 (0) 1939 251118**

Scan and email to:  **kharalambou@smithers.com** Enrol online at: **www.smithersrapra.com/training**
Conditions of Registration

Payment must be received prior to attending the event and can be paid in £ Sterling, € Euro or US $. NB: Credit card payments can only be taken in £ Sterling, unless payment is made online via our secure payment system.

The Course/Seminar Fee includes training course/seminar lecture notes, lunches and refreshments. Accommodation is not included in the fee.

Joining instructions i.e. a letter of confirmation, directions and hotel information will be sent upon receipt of your registration. Please contact the training administrator if you have not received these within 7 days of registration.

Cancellations

1. Cancellation terms for Courses/Seminars held at Shawbury:
   - Cancellations made up to 14 days or more before the requested course/seminar date will be refunded, less a 20% administration fee.
   - Cancellations made within 14 days of the course/seminar date will be subject to the FULL course fee and no refund will be given.

2. Smithers Rapra cannot be held responsible for delegate cancellations and ‘no-shows’ arising from situations beyond its control, e.g. failure to travel or attend owing to cancelled flights, missed connections, weather conditions, strikes etc., emergency or illness. Smithers Rapra may, at its discretion, provide a substitute event, or alternative date, if available.

Delegte Substitutions can be made at any time without incurring extra charge.

Transfers to later Course/Seminar Dates - this option only applies when more than one date is offered for the same course/seminar.

- Requests to transfer to a later course/seminar date made up to 14 days or more before the requested course date will be accommodated, subject to availability of places on the new course/seminar date.
- Requests to transfer to a later course/seminar date made within 14 days of the course date will be regarded as a cancellation and will be subject to the FULL course fee. No refund will be given.
- The option to transfer can be used only once, after which non-attendance will be treated as a cancellation and all outstanding invoices will be due.

Amendments to Programmes

Smithers Rapra reserves the right to cancel or modify any event in its programme. In the event of a cancellation where an alternative cannot be provided, payment received in respect of that course will be refunded in full.

The liability of Smithers Rapra is limited to the reimbursement of the course/seminar fee.

For more information and courses please visit: www.smithersrapra.com/training