

Technical Series 2022 Rubber Science & Technology 101



The **Rubber Science & Technology 101 Series** aims to provide technical knowledge on fundamentals of rubber technology, type and properties of rubber, compounding, processing and testing. Participants will acquire methods to identify types of rubber used for specific applications, design formulations via moulding, extrusion or calendaring processes and carry out troubleshooting in product manufacturing.

Dr. Md. Aris Bin Ahmad has been with MRB since 1976, appointed as a Research Officer for Product Development Unit and retired in 2007 as Head of Unit. He was a Research Fellow, attached to Akademi Hevea Malaysia until 2013. He is currently a part-time Lecturer attached to AHM. He was the Chairman for MRB's Malaysian Standard Technical Committee on General Rubber Goods and MRB ISO 9001 Quality Audit Committee and published more than 60 scientific papers. Was a part-time lecturer in University Malaya and UniKL (MICET). Currently a Committee Member and an Education Officer for the Plastics and Rubber Institute of Malaysia (PRIM).

The Programme

9.00am - Opening Remarks by MRC

9.10am - Commencement of Lecture

Day 1

- Introduction to Dry Rubber Manufacturing Technology
- Types of Rubbers, Grades, Properties & Characteristics
- Processing in Compounding, Mixing & Vulcanization

Day 2

- Categories and Characteristics of Rubber Compounding Ingredients
- Specific Grades, Types, Significance and Effects
- Compound Formulation Design Factors, Rubber Blends

Day 3

- Mixing Technology, Processes and Machineries
- Dispersion measurement and calculation
- Testing of Compounds and Vulcanizates

Day 4

- Moulding, Extrusion and Calendaring Technologies
- Troubleshooting Requirements

1.00pm - End of Lecture and Photography Session

Date

15 March 2022

Natural Rubber and Synthetic Rubbers

16 March 2022

Compounding Ingredients, Compound/
Formulation Design

22 March 2022

Mixing Technology and Testing of
Compounds and Vulcanizates

23 March 2022

Manufacture of Dry Rubber Products

Time

9am-1pm (daily)

Online Platform

Microsoft Teams

Fee per Pax

RM400 only

* Certificate of Completion will be issued for participants with full attendance

How to Register

Log on to www.myrubbercouncil.com and register online [HERE](#)