

TechnoBiz

**EXECUTIVE
DIPLOMA
360°**

RUBBER INDUSTRY

TECHNOLOGY & MANAGEMENT

3-Month Online Program

Next Schedule starts on 1 Sept 2023

Unique & Universal

<https://diploma.technobiz.org>

**EXECUTIVE
DIPLOMA
360°**

RUBBER INDUSTRY TECHNOLOGY & MANAGEMENT

TechnoBiz is offering Executive Diploma 360o Program on "Rubber Industry - Technology & Management" as 3-Month Online Program with emphasis on "Non-Tyre Rubber Products" industry. This program is designed for professionals working in the rubber industry with objective of "Developing Workforce with Technical, Analytical, Management, Communication & Leadership Skills for Rubber Industries". This is a Unique and a Universal Program by addressing technical and management aspects with 360o approach.

360o Approach

3-Month Online Program focusing on

- Applied Science & Technology
- Products Manufacturing
- Design & Development
- Manufacturing Operations
- Engineering & Maintenance
- Regulations & Standards
- Best Practices & Productivity
- Research & Innovations
- Management & Leadership

Participant Criteria

The selected participants are required to have atleast 3 years experience in rubber industry either in technical or in non-technical position.

This program is not suitable for everyone. TechnoBiz team will assess participant's qualification and relevance to this program through personal interview via online. Participants must be working currently in rubber industry.

PROGRAM FORMAT

Feature 1 : Presentations from International Experts

- 100+ Scheduled Modules
- 40+ International Experts
- Specialized Industry Topics
- 200+ hrs Presentations Length

Feature 2 : Cross Learning between Participants

Participants are required to make 5 presentations related to their experience and expertise.

Feature 3: Conversation with Business Leaders

Participants will have business conversation with invited business leaders from the rubber industry to discuss about business management aspects

Feature 4: Unconventional Assessments

Participants have to complete assessment tests by teaming with two of their colleagues as a group.

Feature 5: Special Session on "100+ Good Practices for Rubber Industries"

Participants are required to develop 100+ Good Practices in Rubber Industry by having group discussions with other participants as well as their colleagues & Customers/Suppliers

Feature 6: Uniqueness of Participants

Participants are from different parts of world, who are working in the rubber industry .

Feature 7 : Tech Supplier's Presentations

Suppliers of participant companies will be invited to make presentations in latest technologies and products to all colleagues.

Feature 8: Participants can join program while working in their company

Participants can join and complete the program while working in their organization. Time schedules are in such a way, that facilitate the participation in convenient manner.

Module List

- Module 01 : Introduction to Non-Tyre Products Industry
- Module 02 : General Purpose Rubbers
- Module 03 : Special Purpose Rubbers - Part 1 (EPDM, NBR, CR, CPE, CSM, ACM, AEM)
- Module 04 : Special Purpose Rubbers - Part 2 (HNBR, FKM, ECO, VMQ, FQM, PU)
- Module 05 : Fillers for Rubber Reinforcement
- Module 06 : Rubber Processing Additives
- Module 07 : Natural Rubber : Grades & Selection
- Module 08 : Rubber Mixing Technology
- Module 09 : Key Ingredients of Rubber Compounds
- Module 10 : Mixing of Rubber Compounds
- Module 11 : Flow Properties of filled Rubber Compounds
- Module 12 : Reinforcement - A Key Property of Filled Rubber Vulcanizates
- Module 13 : Carbon Black - Characterization, Dispersion & Reinforcement
- Module 14 : Precipitated Silica - Characterization, Dispersion & Reinforcement
- Module 15 : Rubber Process Oils: Types & Selection
- Module 16 : Rubber Compound Formulation: Development & Case Studies
- Module 17 : Molded Rubber Products: Compound Development
- Module 18 : Rubber Mixing Procedures & Sequence
- Module 19 : Reverse Engineering in Compound Development
- Module 20 : Hydraulic Hoses: Rubber Compound Development
- Module 21 : Best Practices for Rubber Chemists in Material Development
- Module 22 : Metal to Rubber Bonded Products: Compound Development
- Module 23 : Rubber Reclaim Application in Non-Tyre Products
- Module 24 : Rubber Curing by Sulfur: Property Design
- Module 25 : Rubber Curing by Peroxide – Advantages & Limitations
- Module 26 : Rheology and Rheological Effects in Rubber Compounds
- Module 27 : Fill-Factor & Batch Weight of Internal Mixer
- Module 28 : Rubber Industry Clinic - Part 1
- Module 29 : Rubber Industry Clinic - Part 2
- Module 30 : Rubber Industry Clinic - Part 3
- Module 31 : Rubber Industry Clinic - Part 4
- Module 32 : Rubber Industry Clinic - Part 5
- Module 33 : Rubber Testing Laboratory : Instruments & Purpose
- Module 34 : Understanding the Working Principle of the Rubber Extruder
- Module 35 : Impurities in Rubber Compounds - How to Handle?
- Module 36 : Rubber Profile Extrusion & Vulcanization Lines
- Module 37 : Thermoplastic Elastomers - Process, Properties & Recent Applications
- Module 38 : Rubber Chemicals - Quality & Handling
- Module 39 : Rubber Testing - Good & Bad Practices
- Module 40 : Rubber Product Molding and Process Overview for the Non-Technologist

Module 41 : Rubber Compound & Process Design to Reduce Backrinding
Module 42 : Introduction to Compression Rubber Molding
Module 43 : Rubber Processing & Part Deflashing in Compression Molding
Module 44 : Compression Rubber Mold Design – Part 1
Module 45 : Compression Rubber Mold Design – Part 2
Module 46 : Pulse Filling & Compression Preforms in Compression Molding
Module 47 : Platens, Mold Mounting and Mold Insulation in Compression Molding
Module 48 : Air Removal in Compression Molding
Module 49 : Troubleshooting of Compression Molding
Module 50 : Rubber Materials and Compounds Characterization by RPA
Module 51 : Best-Practices Rubber Injection Molding Machinery Investment & Planning
Module 52 : Design of Rubber Injection Molding Process
Module 53 : Blooming Problems in Rubber Products: Why? How to Avoid?
Module 54 : Design of Experiments (DoE) in Rubber Manufacturing Processes
Module 55 : Use of Alternate Carbon Blacks in Rubber Compounding
Module 56 : Selection of Rubbers for meeting Heat, Ozone and Oil Resistance
Module 57 : Introduction to Rubber Hoses
Module 58 : Rubber Compound Development for Hoses
Module 59 : Rubber Hose Manufacturing Process & Control
Module 60 : Rubber Rules - Vulcanization
Module 61 : Rubber Rules - Polymer Characterization
Module 62 : Rubber Rules - Rubber Flow
Module 63 : Rubber Rules - Cavity Filling
Module 64 : Rubber Rules - Response to Applied Force
Module 65 : Understanding of TPE & TPV Families
Module 66 : TPV Industry Overview
Module 67 : TPV Structure & Properties
Module 68 : TPV Processing
Module 69 : TPV Applications in Automotive
Module 70 : TPV Applications in Industrial & Consumer Products
Module 71 : Troubleshooting of TPV Molding
Module 72 : TPV Extrusion Principles & Troubleshooting)
Module 73 : India Rubber Industry - Outlook & Opportunities
Module 74 : Sri Lanka Rubber Industry - Outlook & Opportunities
Module 75 : Malaysia Rubber Industry - Outlook & Opportunities
Module 76 : Coaching Mentoring Need for Executives & Managers in Rubber Industries
Module 77 : Fine Mesh Straining of Rubber Compounds
Module 78 : Micronized Rubber Powder & Applications
Module 79 : Research Trends in Rubber Science & Technology
Module 80 : Aspects of Compounding with Ground Rubber
Module 81 : Importance of Wall Slip in Rubber Processing

Module 82 : Sponge / Cellular Rubber Technology Basics
Module 83 : Raw Materials & Selection for Sponge / Cellular Rubber
Module 84 : Compound Development for Sponge / Cellular Rubber
Module 85 : Manufacturing of Sponge / Cellular Rubber
Module 86 : EPDM Rubber Industry: Market, Supply Chain & Competencies
Module 87 : EPDM Rubber Chemistry & Properties
Module 88 : EPDM Rubber Compounding
Module 89 : EPDM Rubber Processing
Module 90 : EPDM Rubber in Foam Products
Module 91 : EPDM Rubber in Automotive
Module 92 : EPDM Rubber in Construction & Industrial Goods
Module 93 : EPDM Rubber in Tyres & Tubes
Module 94 : Troubleshooting of EPDM Rubber Processing
Module 95 : Rubber Industry Clinic - Part 6
Module 96 : Cost Reduction in Moulded Rubber Products Manufacturing
Module 97 : Rubber Industry Clinic - Part 7
Module 98 : Elastomer Characterization by Temperature Scanning Stress Relaxation (TSSR) Test
Module 99 : Cost Estimating for Molded Rubber Parts
Module 100 : Rubber Mold Debug
Module 101 : Intellectual Property Guidelines for Rubber Industries
Module 102 : Quality Management System Guidelines for Rubber Industries
Module 103 : Product Stewardship Guidelines for Rubber Industries
Module 104 : Operational Excellence Guidelines for Rubber Industries
Module 105 : Establishing Credit Terms for Non-Terms Customers
Module 106 : Steps to Handle Marine Insurance Claims for Sea Shipments
Module 107 : Natural Rubber Processing Behavior : Custom Rubber Mixer Perspective
Module 108 : Effect of Additives in Rubber Compounding & Products Performance
Module 109 : Fluorocarbon Rubber (FKM) & PFAS REACH Restrictions
Module 110 : Silicone Elastomers : Properties & Compounding
Module 111 : Colour Matching of Rubber Compounds
Module 112 : FDA Testing of Rubber Materials
Module 113 : Rubber Mixing Technology
Module 114 : Sales Order Entry & Developments in Rubber Mixing Business
Module 115 : Cold Runner Technique in Rubber Injection Molding
Module 116 : 100+ Good Practices for Rubber Industries
Module 117 : Rubber Industry Clinic - Part 8
Module 118 : Developments in Regulations for Rubber Industry
Module 119 : Mould Maintenance & Management in Rubber Industry
Module 120 : 3D Printing of Rubber

Remarks :

- TechnoBiz reserves the right to make amendments to the program as appropriate without prior notification.
- Registered Participants are required to become a "Premium Gold Member" of "TechnoBiz" Channel on YouTube to access some of the modules.

Upcoming Schedules

- 1 Sept - 30 Nov 2023
- 1 Feb - 30 Apr 2024
- 1 Jun- 31 Aug 2024
- 1 Sept -30 Nov 2024

Registered participants can choose any of the three time zones that is convenient to participate

- Central Europe Time
- USA Eastern Standard Time
- Thailand

Learning Hours :

- ~ 3 Hours/Day (Weekday Program) (Mon-Fri) (2pm-5pm)
- ~ 7 Hours/Day (Weekend Program) (Sat-Sun) (9am-6pm)

Remarks: Confirmed participants can choose either weekday or weekend schedule to participate in this program

Registration Fee

2023 Fee Structure

- Individual : US\$ 3,500
- Group (5-pax) : US\$ 10,000

2024 Fee Structure

- Individual : US\$ 4,500
- Group (5-pax) : US\$ 12,000

Remark: VAT 7% & Bank Fee Applies.

How to Apply?

- Please send detailed CV of participant to peram.technobiz@gmail.com for eligibility and online interview.
- Approved participants are required to complete the registration process at <https://diploma.technobiz.org>

Participant Feedback

Please scan QR Code to view the feedback from current participants



Zander Byrne
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Clwyd Compounders Ltd
United Kingdom



Raja Sellamuthu, Dept. Head
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