

Online MasterClass (KnowHow Webinars-TechnoBiz)

# Rubber Compounding for Non-Tyre Products

48 Modules / Training Hours: 60 Hours (10-Day Program) / 12 Experts

<b>DAY 1</b>			
09:00-10:10	Module 1	<b>Introduction to Non-Tyre Products Industry</b> <i>Speaker: Dr. Samar Bandyopadhyay</i>	70 minutes
10:10-10:30	Break Time		20 minutes
10:30-11:45	Module 2	<b>General Purpose Rubbers</b> <i>Speaker: Dr. Samar Bandyopadhyay</i>	75 minutes
11:45-12:15	Break Time		30 minutes
12:15-13:30	Module 3	<b>Special Purpose Rubbers (EPDM, NBR, CR, CPE, CSM, ACM, AEM)</b> <i>Speaker: Dr. P. Thavamani</i>	75 minutes
13:30-14:30	Break Time		60 minutes
14:30-15:40	Module 4	<b>Special Purpose Rubbers (HNBR, FKM, ECO, VMQ, FQM, PU)</b> <i>Speaker: Dr. P. Thavamani</i>	70 minutes
15:40-16:00	Break Time		20 minutes
16:00-17:50	Module 5	<b>Fillers for Rubber Reinforcement</b> <i>Speaker: Dr. Samar Bandyopadhyay</i>	110 minutes
<b>Day 2</b>			
09:00-09:45	Module 6	<b>Rubber Processing Additives</b> <i>Speaker: Dr. Samar Bandyopadhyay</i>	45 minutes
09:45-10:00	Break Time		15 minutes
10:00-12:30	Module 7	<b>Rubber Vulcanization Chemicals &amp; Protective Agents</b> <i>Speaker: Dr. Samar Bandyopadhyay</i>	150 minutes
12:30-13:30	Break Time		60 minutes
13:30-15:10	Module 8	<b>Reinforcing Materials (Textiles &amp; Steel) for Rubber Industries</b> <i>Speaker: Dr. Samar Bandyopadhyay</i>	90 minutes
15:10-15:30	Break Time		20 minutes
15:30-16:05	Module 9	<b>Rubber Process Oils: Types &amp; Selection</b> <i>Speaker: Dr. Samar Bandyopadhyay</i>	35 minutes
16:05-16:30	Break Time		25 minutes
16:30-17:30	Module 10	<b>Rubber Compound Formulation: Development &amp; Case Studies</b> <i>Speaker: Dr. Samar Bandyopadhyay</i>	60 minutes
<b>Day 3</b>			
09:00-11:20	Module 11	<b>Molded Rubber Products: Compound Development</b> <i>Speaker: E. Palaninathan</i>	140 minutes
11:20-12:00	Break Time		40 minutes
12:00-13:20	Module 12	<b>Hydraulic Hoses: Rubber Compound Development</b> <i>Speaker: UK Prasad</i>	80 minutes
13:20-14:20	Break Time		60 minutes
14:20-15:45	Module 13	<b>Conveyor Belts: Rubber Compound Development</b> <i>Speaker: Priyabrata Ghosh</i>	85 minutes
15:45-16:15	Break Time		30 minutes
16:15-17:15	Module 14	<b>Rubber Mixing Technology &amp; Selection</b> <i>Speaker: Dr. MN Aji</i>	60 minutes

<b>Day 4</b>			
09:00-10:30	Module 15	<b>Rubber Mixing Procedures &amp; Sequence</b> Speaker: Dr. MN Aji	90 minutes
10:30-11:00	Break Time		30 minutes
11:00-12:30	Module 16	<b>Cost Analysis of Rubber Compound</b> Speaker: Priyabrata Ghosh	90 minutes
12:30-13:30	Break Time		60 minutes
13:30-15:10	Module 17	<b>Extruded Rubber Products: Compound Development</b> Speaker: P Roy Choudhury	100 minutes
15:10-15:30	Break Time		30 minutes
15:30-16:50	Module 18	<b>Industrial Rubber Rollers: Compound Development</b> Speaker: Priyabrata Ghosh	80 minutes
16:50-17:20	Break Time		30 minutes
17:20-18:20	Module 19	<b>Rubber Mixing Plant Management</b> Speaker: R Lakshminarayanan	60 minutes
<b>Day 5</b>			
09:00-10:00	Module 20	<b>Reverse Engineering in Compound Development</b> Speaker: Dr. Samar Bandyopadhyay	60 minutes
10:00-10:30	Break Time		30 minutes
10:30-12:00	Module 21	<b>Footwear Soles: Rubber Compound Development</b> Speaker: Priyabrata Ghosh	90 minutes
12:00-12:30	Break Time		30 minutes
12:30-13:25	Module 22	<b>Cost Optimization of Rubber Hose Compounds</b> Speaker: UK Prasad	55 minutes
13:30-14:30	Break Time		60 minutes
14:30-15:00	Module 23	<b>Best Practices for Rubber Chemists in Material Development</b> Speaker: Dr. Hans-Joachim Graf	30 minutes
15:00-15:15	Break Time		15 minutes
15:15-16:45	Module 24	<b>Laboratory Management System</b> Speaker: Dr. Samar Bandyopadhyay	90 minutes
<b>Day 6</b>			
10:00-10:45	Module 25	<b>Setting-up Rubber Mixing Line</b> Speaker: Dr. MN Aji	45 minutes
10:45-11:15	Break Time		30 minutes
11:15-12:25	Module 26	<b>Rubber Mixing Troubleshooting</b> Speaker: Dr. MN Aji	70 minutes
12:25-13:30	Break Time		65 minutes
13:30-15:05	Module 27	<b>Metal to Rubber Bonded Products: Compound Development</b> Speaker: E. Palaninathan	95 minutes
15:05-15:30	Break Time		25 minutes
15:30-16:35	Module 28	<b>Rubber Reclaim Application in Non-Tyre Products</b> Speaker: Kalyan Das	65 minutes
<b>Day 7</b>			
10:00-11:25	Module 29	<b>Safety &amp; Environmental Regulations for Rubber &amp; Tyre Industries</b> Speaker: Dr. Samar Bandyopadhyay	85 minutes
11:25-12:00	Break Time		25 minutes
12:00-13:00	Module 30	<b>Storage of Raw Materials &amp; Rubber Compounds</b> Speaker: Dr. Samar Bandyopadhyay	60 minutes
13:00-14:00	Break Time		60 minutes
14:00-15:00	Module 31	<b>How to Judge Quality of Rubber Compounds?</b> Speaker: R Lakshminarayanan	60 minutes
15:00-15:30	Break Time		30 minutes
15:30-17:00	Module 32	<b>Elastomer Curing Systems and Their Effects on Product Performance</b> Speaker: Dr. P. Thavamani	90 minutes

<b>Day 8</b>			
09:00-10:00	Module 33	<b>Dispersion and Distribution Principles in Rubber Compounding</b> Speaker: Dr. MN Aji	60 minutes
10:00-10:30	Break Time		30 minutes
10:30-11:15	Module 34	<b>Fill-Factor &amp; Batch Weight of Internal Mixer</b> Speaker: Dr. MN Aji	45 minutes
11:15-11:30	Break Time		15 minutes
11:30-12:50	Module 35	<b>Rubber Testing Principles</b> Speaker: Dr. Samar Bandyopadhyay	80 minutes
12:50-13:30	Break Time		40 minutes
13:30-15:30	Module 36	<b>Q &amp; A (Part 1): Rubber Compounding for Non-Tyre Products</b> (Answers for Questions from Past Participants)	120 minutes
15:30-16:00	Break Time		
16:00-18:00	Module 37	<b>Q &amp; A (Part 2): Rubber Compounding for Non-Tyre Products</b> (Answers for Questions from Past Participants)	120 minutes
<b>Day 9</b>			
09:00-10:20	Module 38	<b>Q &amp; A (Part 3): Rubber Compounding for Non-Tyre Products</b> (Answers for Questions from Past Participants)	80 minutes
10:20-10:40	Break Time		20 minutes
10:40-11:55	Module 39	<b>Q &amp; A (Part 4): Rubber Compounding for Non-Tyre Products</b> (Answers for Questions from Past Participants)	75 minutes
11:55-12:55	Break Time		60 minutes
12:55-14:05	Module 40	<b>Q &amp; A (Part 5): Rubber Compounding for Non-Tyre Products</b> (Answers for Questions from Past Participants)	70 minutes
14:05-14:30	Break Time		25 minutes
14:30-16:05	Module 41	<b>Rheology and Rheological Effects in Rubber Compounds</b> Speaker: Dr. Gerard Nijman	95 minutes
16:05-16:30	Break Time		25 minutes
16:30-17:25	Module 42	<b>Q &amp; A (Part 6): Rubber Compounding for Non-Tyre Products</b> (Answers for Questions from Past Participants)	55 minutes
<b>Day 10</b>			
09:00-09:30	Module 43	<b>Q &amp; A (Part 7): Rubber Compounding for Non-Tyre Products</b> (Answers for Questions from Past Participants)	30 minutes
09:30-09:45	Break Time		15 minutes
09:45-10:40	Module 44	<b>Q &amp; A (Part 8): Rubber Compounding for Non-Tyre Products</b> (Answers for Questions from Past Participants)	55 minutes
10:40-11:00	Break Time		20 minutes
11:00-11:15	Module 45	<b>Q &amp; A (Part 9): Rubber Compounding for Non-Tyre Products</b> (Answers for Questions from Past Participants)	15 minutes
11:15-11:30	Break Time		15 minutes
11:30-12:00	Module 46	<b>Blister Problems in Rubber Products</b> Speaker: Dr. Samar Bandyopadhyay	30 minutes
12:00-13:00	Break Time		60 minutes
13:00-15:00	Module 47	<b>Rubber Process Analyzer (RPA): How to Use it Efficiently?</b> Speaker: Henri Burhin	120 minutes
15:00-15:30	Break Time		30 minutes
15:30-16:30	Module 48	<b>Rubber Compound Properties &amp; Final Product Quality: Correlations</b> Speaker: Yet to be confirmed	60 minutes

**Q & A Session:** All presentations are pre-recorded. Participants are requested to submitted questions on each module. The submitted questions from the participants will be reviewed by experts and discussed in a separate Q & A session after completion of all the modules. The schedule of this QA will be notified appropriately to all registered participants. If participants are unable to join this Q&A schedule, TechnoBiz provides an opportunity for the participants to view the recorded Q &A session at later period.

**TechnoBiz Knowledge Test:** All the registered participants are required to participate in the TechnoBiz Knowledge Test on “Tyre Compounding” to receive MasterClass Certificate. The test schedule will be held 7 days after completion of program. Test length is 90 minutes. The online link for the test will be sent to the registered participants two days before schedule. The test format is multiple choice and true/false format questions.

**MasterClass Certificate:** Participants who joins all modules, QA session and Knowledge Test will receive “MasterClass Certificate”

### **Registration Fees**

- Public Schedule (*Week Day: Mon-Fri*): Member: 500 US\$; Non-Member: 650 US\$; Group (5-Pax): 1500 US\$
- Public Schedule (*Week End: Sat-Sun*): Member: 600 US\$; Non-Member: 780 US\$; Group (5-Pax): 1800 US\$
- Custom Schedule (*Designed by Participant*): Member: 750 US\$; Non-Member: 975 US\$; Group (5-Pax): 2250 US\$

If you miss any modules, you can review the missed modules at an additional fee of 45 US\$/module/person.

**Registration Form:** Please visit <https://webinars.technobiz.org/event-form-18760/> .

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