

Online MasterClass (KnowHow Webinar - TechnoBiz)

TYRE COMPOUNDING

46 Modules / Training Hours: ~48 (8-Day Program)/ 9 Experts

DAY 1			
09:00-11:00	Module 1	Tyre Design & Construction – An Introduction <i>Speaker: Dr. Gerard Nijman</i>	120 minutes
11:00-11:30	Break Time		30 minutes
11:30-12:45	Module 2	General Purpose Rubbers <i>Speaker: Dr. Samar Bandyopadhyay</i>	75 minutes
12:45-13:30	Break Time		45 minutes
13:30-14:15	Module 3	Saturated, Unsaturated, Polar and Non-Polar Rubbers <i>Speaker: Dr. Samar Bandyopadhyay</i>	45 minutes
14:15-14:30	Break Time		15 minutes
14:30-16:10	Module 4	Fillers for Rubber Reinforcement <i>Speaker: Dr. Samar Bandyopadhyay</i>	110 minutes
16:10-16:30	Break Time		20 minutes
16:30-17:15	Module 5	Rubber Processing Additives <i>Speaker: Dr. Samar Bandyopadhyay</i>	45 minutes
17:15-17:30	Break Time		
17:30-17:45	Module 6	EPDM Application in Tyres & Tubes <i>Speaker: Eric Jourdain</i>	15 minutes
DAY 2			
09:00-11:30	Module 7	Rubber Vulcanization Chemicals & Protective Agents <i>Speaker: Dr. Samar Bandyopadhyay</i>	150 minutes
11:30-12:00	Break Time		30 minutes
12:00-13:10	Module 8	Rubber Compounding for meeting Properties, Processing and Price <i>Speaker: Dr. Samar Bandyopadhyay</i>	70 minutes
13:10-14:10	Break Time		60 minutes
14:10-15:00	Module 9	Selection of Rubbers for meeting Heat, Ozone and Oil Resistance <i>Speaker: Dr. Samar Bandyopadhyay</i>	50 minutes
15:00-15:30	Break Time		30 minutes
15:30-16:10	Module 10	Silica and Silane Technology- Overview <i>Speaker: Dr. Samar Bandyopadhyay</i>	50 minutes
16:10-16:30	Break Time		20 minutes
16:30-17:30	Module 11	Rubber Mixing Technology and Selection <i>Speaker: Dr. MN Aji</i>	60 minutes
DAY 3			
09:00-09:45	Module 12	Application of Resins in Tyre Compounding <i>Speaker: Dr. Samar Bandyopadhyay</i>	45 minutes
09:45-10:00	Break Time		15 minutes
10:00-11:30	Module 13	Rubber Mixing Procedures & Sequence <i>Speaker: Dr. MN Aji</i>	90 minutes
11:30-12:00	Break Time		30 minutes
12:00-12:45	Module 14	Setting-up Rubber Mixing Line <i>Speaker: Dr. MN Aji</i>	45 minutes
12:45-13:45	Break Time		60 minutes
13:45-14:45	Module 15	Rubber Mixing Troubleshooting <i>Speaker: Dr. MN Aji</i>	60 minutes
14:45-15:15	Break Time		30 minutes

15:15-15:50	Module 16	Application of High-Performance Resins in Tyre Compounding <i>Speaker: Dr. Samar Bandyopadhyay</i>	35 minutes
15:50-16:10	Break Time		
16:10-16:50	Module 17	NR and SBR Compounding <i>Speaker: Dr. Samar Bandyopadhyay</i>	40 minutes
16:50-17:10	Break Time		20 minutes
17:10-17:40	Module 18	Application of High-Performance Clays in Tyre Compounding <i>Speaker: Dr. Samar Bandyopadhyay</i>	30 minutes
DAY 4			
09:00-09:45	Module 19	Passenger Car Tyre Tread Compounding for Normal Application <i>Speaker: Dr. Samar Bandyopadhyay</i>	45 minutes
09:45-10:00	Break Time		15 minutes
10:00-10:40	Module 20	Passenger Car Tyre Tread Compounding for High Mileage <i>Speaker: Dr. Samar Bandyopadhyay</i>	40 minutes
10:40-11:00	Break Time		20 minutes
11:00-11:40	Module 21	Passenger Car Tyre Tread Compounding for Magic Triangle <i>Speaker: Dr. Samar Bandyopadhyay</i>	40 minutes
11:40-12:00	Break Time		20 minutes
12:00-12:35	Module 22	Tyre Sidewall Compounding <i>Speaker: Dr. Samar Bandyopadhyay</i>	35 minutes
12:35-13:35	Break Time		30 minutes
13:35-14:10	Module 23	Truck Bus Radial Tyre Steel Belt Skim Compounding <i>Speaker: Dr. Samar Bandyopadhyay</i>	35 minutes
14:10-14:25	Break Time		15 minutes
14:25-15:10	Module 24	Truck Bus Radial Tyre Tread Compounding <i>Speaker: Dr. Samar Bandyopadhyay</i>	45 minutes
15:10-15:30	Break Time		20 minutes
15:30-16:10	Module 25	Truck Bead Compounding <i>Speaker: Dr. Samar Bandyopadhyay</i>	40 minutes
16:10-16:30	Break Time		20 minutes
16:30-17:30	Module 26	Tire Innerliner Technology and Butyl Rubbers <i>Speaker: Dr. Brendan Rodgers</i>	60 minutes
DAY 5			
09:00-10:35	Module 27	Q & A with Expert (Part 1): Tyre Compounding <i>(Answers for Questions from Past Participants)</i>	95 minutes
10:35-11:00	Break Time		25 minutes
11:00-12:30	Module 28	Q & A with Expert (Part 2): Tyre Compounding <i>(Answers for Questions from Past Participants)</i>	90 minutes
12:30-13:15	Break Time		60 minutes
13:15-14:40	Module 29	Q & A with Expert (Part 3): Tyre Compounding <i>(Answers for Questions from Past Participants)</i>	85 minutes
14:40-15:00	Break Time		30 minutes
15:00-15:55	Module 30	Q & A with Expert (Part 4): Tyre Compounding <i>(Answers for Questions from Past Participants)</i>	55 minutes
15:55-16:15	Break Time		20 minutes
16:15-17:45	Module 31	Mixing of Silica Compounds and the In-Situ Silanization Process <i>Speaker: Dr. Gerard Nijman</i>	90 minutes
DAY 6			
09:00-10:25	Module 32	Safety & Environmental Regulations for Rubber & Tyre Industries <i>Speaker: Dr. Samar Bandyopadhyay</i>	85 minutes
10:25-11:00	Break Time		35 minutes
11:00-11:45	Module 33	Compound Development for Solid Tyres <i>Speaker: N. Rajagopalan</i>	45 minutes
11:45-12:15	Break Time		30 minutes

12:15-13:00	Module 34	Aircraft Tire Materials Technologies: An Introduction Speaker: Dr. Brendan Rodgers	45 minutes
13:00-14:00	Break Time		60 minutes
14:00-14:50	Module 35	Bicycle Tyre & Tube Compound Development Speaker: Dr. Samar Bandyopadhyay	50 minutes
14:50-15:20	Break Time		30 minutes
15:20-16:20	Module 36	Dispersion and Distribution Principles in Rubber Compounding Speaker: Dr. MN Aji	60 minutes
16:20-16:50	Break Time		15 minutes
16:50-17:35	Module 37	Fill-Factor & Batch Weight of Internal Mixer Speaker: Dr. MN Aji	45 minutes
DAY 7			
09:00-10:00	Module 38	Utility Requirement in a Tyre Industry Speaker: R. M. Mohan	60 minutes
10:00-10:30	Break Time		30 minutes
10:30-11:30	Module 39	Storage of Raw Materials and Rubber Compounds Speaker: Dr. Samar Bandyopadhyay	60 minutes
11:30-12:00	Break Time		30 minutes
12:00-12:20	Module 40	Q & A with Expert (Part 1): Rubber Mixing Plant: Design & Layout (Answers for Questions from Past Participants)	20 minutes
12:20-13:30	Break Time		70 minutes
13:30-14:50	Module 41	Testing of Rubber Compounds Speaker: Dr. Samar Bandyopadhyay	80 minutes
15:00-15:30	Break Time		30 minutes
15:30-17:05	Module 42	Rheology and Rheological Effects in Rubber Compounds Speaker: Dr. Gerard Nijman	95 minutes
DAY 8			
09:00-11:00	Module 43	Rubber Process Analyzer (RPA): How to Use it Efficiently? Speaker: Henri Burhin	120 minutes
11:00-11:30	Break Time		30 minutes
11:30-12:35	Module 44	Compounding for Tyre Retreading Speaker: Sanatan Kundu	55 minutes
12:35-13:30	Break Time		
13:30-14:20	Module 45	Q & A with Expert (Part 5): Tyre Compounding (Answers for Questions from Past Participants)	50 minutes
14:20-15:00	Break Time		40 minutes
15:00-16:00	Module 46	Compounds for Motorcycle, Scooter and Three-Wheeler Tyres Speaker: Dr. Samar Bandyopadhyay	60 minutes

Q & A Session: All presentations are pre-recorded. The submitted questions from the participants will be discussed in a separate Q & A session after completion of all 45 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 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: 750 US\$; Non-Member: 950 US\$; Group (5-Pax): 2250 US\$
- Public Schedule (Week End: Sat-Sun): Member: 900 US\$; Non-Member: 1140 US\$; Group (5-Pax): 2700 US\$
- Custom Schedule (Designed by Participant): Member: 1125 US\$; Non-Member: 1425 US\$; Group (5-Pax): 3375 US\$

Registration Form: Please visit <https://webinars.technobiz.org/event-form-19911/> .

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