



Tyre Compounding

MasterClass (Online Training)

22-30 November 2021 (8-Day Program)

Program Agenda

Available Time Zones: Thailand, India, Central Europe & USA EST

Day 1 (22 November 2021) (Monday)			
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 (23 November 2021) (Tuesday)			
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 (24 November 2021) (Wednesday)			
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 (25 November 2021) (Thursday)			
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 (26 November 2021) (Friday)			
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 (27 November 2021) (Saturday)			
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
11:00-11:30	Module 33	Compounding for Solid Tyres <i>Speaker: N. Rajagopalan</i>	30 minutes
11:30-11:45	Break Time		15 minutes
11:45-12:45	Module 34	Aircraft Tire Materials Technologies: An Introduction <i>Speaker: Dr. Brendan Rodgers</i>	60 minutes
12:45-13:30	Break Time		45 minutes

13:30-14:00	Module 35	Compounding for Bicycle/Motorcycle Tyres Speaker: Dr. Samar Bandyopadhyay	30 minutes
14:00-14:30	Break Time		30 minutes
14:30-15:00	Module 36	Compounding for Winter Applications Speaker: Dr. Samar Bandyopadhyay	30 minutes
15:00-15:15	Break Time		15 minutes
15:15-15:45	Module 37	Fill-Factor in Internal Mixer Speaker: Dr. MN Aji	30 minutes
15:45-16:00	Break Time		15 minutes
16:00-16:45	Module 38	Dispersion and Scorch Issues in Rubber Compounding Speaker: Dr. MN Aji	45 minutes
16:45-17:00	Break Time		15 minutes
17:00-17:45	Module 39	Utility Requirement in Rubber Products & Tyre Manufacturing Speaker: R. M. Mohan	45 minutes
Day 7 (29 November 2021) (Monday)			
09:00-10:00	Module 40	Maintenance of Rubber Mixing Machinery Speaker: R.M. Mohan	60 minutes
10:00-10:30	Break Time		30 minutes
10:30-11:30	Module 41	Storage of Raw Materials and Rubber Compounds Speaker: Dr. Samar Bandyopadhyay	60 minutes
11:30-12:00	Break Time		
12:00-12:20	Module 42	Q & A with Expert (Part 1): Rubber Mixing Plant: Design & Layout <i>(Answers for Questions from Past Participants)</i>	20 minutes
12:20-13:30	Break Time		70 minutes
13:30-15:00	Module 43	Testing of Rubber Compounds Speaker: Dr. Samar Bandyopadhyay	90 minutes
15:00-15:30	Break Time		30 minutes
15:30-16:30	Module 44	Rheology and Rheological Effects in Rubber Compounds Speaker: Dr. Gerard Nijman	60 minutes
16:30-17:00	Break Time		
17:00-17:30	Module 45	Rubber Reclaim Application in Tyre Compounding Speaker: Kalyan Das	30 minutes
Day 8 (30 November 2021) (Tuesday)			
09:00-11:00	Module 46	Rubber Process Analyzer (RPA): How to Use it Efficiently? Speaker: Henri Burhin	120 min
11:00-11:30	Break Time		
11:30-13:00	Q & A Session 1: Tyre Compounding <i>(Submitted Questions in this masterclass will be addressed in this session)</i>		90 minutes
13:00-14:00	Break Time		
14:00-15:30	Q & A Session 2: Tyre Compounding <i>(Submitted Questions in this masterclass will be addressed in this session)</i>		90 minutes
15:30-16:00	Break Time		
16:00-17:30	Q & A Session 3: Tyre Compounding <i>(Submitted Questions in Edition 2 will be addressed in this session)</i>		90 minutes
Assessment Test			
TechnoBiz Knowledge Test: Tyre Compounding			90 minutes
This online test can be completed at any time during 1-5 December 2021. You can choose your convenient 90 minutes time as a single shot to participate in this test. Links will be sent on 1 Dec 2021.			

Remarks: All presentations are pre-recorded. Participants can post their questions in the questions during the session or in the feedback form after presentation completed. All questions received will be addressed in Q & A Session (Day 8). Participants who join all modules are invited to participate in “TechnoBiz Knowledge Test”.

Registration Fees and Form: Please check www.knowhow-webinars.com.

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