



SCHEDULE AT A GLANCE *Current as of 11/21/24 - subject to change*

Sunday, December 1, 2024			Instructor	Location
	17:00 - 19:00	Registration		Barossa Foyer
	18:00 - 19:00	Welcome Reception		Hunter 1 & 2
Monday, December 2, 2024 - Fundamentals and Cell Design			Instructor	Location
Day 1	07:00 - 16:30	Registration		
	08:00 - 08:10	Introduction and Opening of the Course	Gudrun Saevarsdottir	Barossa
	08:10 - 09:20	Science and Physics of Electrochemistry	Barry Welch	
	09:20 - 10:00	Bath Chemistry	Gudrun Saevarsdottir	
	10:00 - 10:20	Break		
	10:20 - 11:00	Current Efficiency	Halvor Kvande	
	11:00 - 12:00	Cell Voltage and Energy Consumption	Halvor Kvande	
	12:00 - 13:00	Lunch		The Ternary
	13:00 - 13:40	Discussion Panel: Energy Consumption Reduction	All	Barossa
	13:40 - 14:20	Heat Balance	Halvor Kvande	
	14:20 - 15:00	Anode Effects and Perfluorocarbon Gas Emissions	Mark Dorreen	
	15:00 - 15:20	Break		Barossa
15:20 - 16:30	Cell Design - Part 1	Alexander Arkhipov		
Tuesday, December 3, 2024 - Cell Design and Cell Operation			Instructor	Location
Day 2	08:00 - 16:30	Registration		
	08:00 - 09:00	Cell Design - Part 2	Alexander Arkhipov	Barossa
	09:00 - 09:30	Material Degradation and Cathode Failure	Alexander Arkhipov	
	09:30 - 10:00	Preheat, Start-up, and Early Operation	Halvor Kvande	
	10:00 - 10:20	Break		
	10:20 - 11:00	Alumina Feeding and Dissolution	Pablo Navarro	
	11:00 - 11:30	Impact of Alumina Properties on Pot Operation	Stephen Lindsay	
	11:30 - 12:00	Anode Cover Material, Preparation, and Management	Stephen Lindsay	
	12:00 - 13:00	Lunch		The Ternary
	13:00 - 14:20	Group Work/Workshop	All	Barossa
	14:20 - 15:00	Cell Control Systems - History of Smelter Cell Control	Pablo Navarro	
	15:20 - 16:30	Break		
15:20 - 16:30	Potline Operations	Pablo Navarro		

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Wednesday, December 4, 2024 - Tamago Aluminum Plant Tour			Instructor	Location
Day 3	08:00	Departure from Hotel in Sydney		
	10:15	Arrival at Tomago		
	10:15 - 11:30	Safety Review, Plant Tour Leadership Introduction, etc.		
	11:30 - 12:30	Lunch		
	12:30 - 15:00	Tour of Smelter		
	15:00 - 16:00	Lecture by Tomago		
	16:00	Departure from Tomago Smelter		
Thursday, December 5, 2024 - Smelting Support (Alumina and Anodes)			Instructor	Location
Day 4	08:00 - 16:30	Registration		
	08:00 - 09:00	Magnetohydrodynamics	Alexander Arkhipov	Barossa
	09:00 - 10:00	Diagnosis and Correction of Irregularly Operating Cells	Halvor Kvande	
	10:00 - 10:20	Break		
	10:20 - 10:40	Metal Tapping	Mark Dorreen	
	10:40 - 11:00	Anode Manufacture	Mark Dorreen	
	11:00 - 12:00	Anode Change and Anode Covering	Stephen Lindsay	
	12:00 - 13:00	Lunch		The Ternary
	13:00 - 14:00	Anode Performance in the Cell	Mark Dorreen	Barossa
	14:00 - 14:20	Spent Anode Recycle	Mark Dorreen	
	14:20 - 15:00	Anode Rodding	Stephen Lindsay	
	15:00 - 15:20	Break		
	15:20 - 16:20	Uses of Aluminum and its Quality Requirements	Stephen Lindsay	
	16:20 - 17:00	Presentation of the results from the Group Works	All	
	18:30 - 20:30	Graduation Dinner		
Friday, December 6, 2024 - The Future of Aluminum Production			Instructor	Location
Day 5	08:00 - 12:00	Registration		
	08:00 - 08:20	Overall State of the Aluminum Industry	Mark Dorreen	Barossa
	08:20 - 09:00	Digitalization and Industry 4.0	Pablo Navarro	
	09:00 - 09:30	Development of the Carbon Footprint - the Road to Net-Zero Greenhouse Gas Emissions	Gudrun Saevarsdottir	
	09:30 - 10:00	Oxygen Evolving Inert Anodes, the Future for Primary Aluminum Production	Gudrun Saevarsdottir	
	10:00 - 10:20	Break		
	10:20 - 10:40	Aluminum Chloride Electrolysis	Halvor Kvande	
	10:40 - 11:30	Discussion: The Future of Aluminum Production	Halvor Kvande	
	11:30 - 11:50	Practical Cell Operational Problems - Questions from the Participants - Sharing of Experiences	All	
	11:50 - 12:00	End of Course		
	12:00 - 13:00	Lunch		The Ternary