

19 to 21 February 2026

Zuid Afrikaans Hospital
Education Centre

Course Program

Thursday 19th of February

Early Morning Session

07h00 – 07h15	Signing the attendance register	
07h15 – 07h30	ECMO Overview	<i>Course Director</i>
07h30 – 08h00	Building an ECMO circuit	<i>Norbert Welkovic</i>
08h00 – 08h15	The History of ECMO	<i>Course Director</i>
08h15 – 08h30	Circuit Components and Priming	<i>Henli Faber</i>
08h30 – 09h00	Practical demonstration of a Circuit Check	<i>Norbert Welkovic</i>
09h00 – 09h40	Simulation Scenario & Debrief	<i>Faculty</i>

Tea and Light Refreshments

Late Morning Session

10h00 – 10h40	Physiology of ECMO	<i>Theo de Klerk</i>
10h40 – 11h00	Cannulation	<i>Norbert Welkovic</i>
11h00 – 11h20	Respiratory failure and the indications for VV ECMO	<i>Theo de Klerk</i>
11h20 – 11h40	Initiation of VV ECMO	<i>Henli Faber</i>
11h40 – 12h00	Management and weaning of VV ECMO	<i>Marlice van Dyk</i>
12h00 – 12h20	Cardiac Failure and the indications for VA ECMO	<i>Neville Vlok</i>
12h20 – 12h40	Initiation of VA ECMO	<i>Henli Faber</i>
12h40 – 13h00	Management and weaning of VA ECMO	<i>Marlice van Dyk</i>

Lunch

Afternoon Session

14h00 – 17h00	Meet the Machines Cardiohelp Lifemotion ECMO-Life	<i>Surgical Innovations</i> <i>Respiratory Care Africa</i> <i>Tau</i>
17h00 – 17h20	Anticoagulation of the circuit	<i>Marlice van Dyk</i>
17h20 – 17h40	Summary of the day, Q & A and debrief	<i>Course Director</i>

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Early Morning Session

07h00 – 08h00	Ad-Lib practice om the machine	<i>Faculty</i>
08h00 – 08h20	Physiotherapy on the ECMO run	<i>Regomoditswe Legodu</i>
08h20 – 08h40	Sedation and ECLS	<i>Theo de Klerk</i>
08h40 – 09h00	Renal Replacement therapy during ECMO	<i>Marlice van Dyk</i>
09h00 – 09h40	Transport	<i>Hugo Minnaar /Martin Ellis</i>

Tea and Light Refreshments

Late Morning Session

10h00 – 10h20	Procedures on ECMO	<i>Norbert Welkovic</i>
10h20 – 11h20	Complications of ECMO	<i>Norbert Welkovic</i>
11h20 – 11h40	Recent Evidence for VV and VA ECMO	<i>Marlice van Dyk</i>
11H40 – 12H40	The Ethics and Legalities of terminating ECMO Support	<i>Norbert Welkovic</i>

Lunch

Afternoon Session

13h30 – 16h30	Wet Lab and Simulation Scenarios with debrief			<i>Faculty</i>	
		VV ECMO	VA ECMO		PRIMING
	13h00 – 14h00	Group A	Group B		Group C
	14h00 – 15h00	Group C	Group A		Group B
	15h00 – 15h00	Group B	Group C	Group A	
16H30 – 17h30	Simulation Scenario & debrief			<i>3 Volunteer Attendees Faculty</i>	
17H30 – 17h50	Summary of the day, Q & A and debrief			<i>Marlice van Dyk</i>	

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Saturday 21st of February

Morning Session

09h00 – 10h00

Theoretical MCQ Examination

Marlice van Dyk

10h00 – 13h00

Practical Competency Examination on Simulation Scenarios

Room 1

Hugo Minnaar, Kedibone Moloto

Norbert Welkovich

Room 2

Theo de Klerk, Martin Ellis

Henli Faber