

COURSE TITLE	Advanced WESM Training on Trading Operations	
COURSE REQUIREMENT	This course serves as a higher-level training for all qualified participants. To enroll, the Basic WESM training shall have been completed. Interested parties must comply with the training enrollment process in order to be accommodated to the course.	
DURATION	1 day (approximately 8 lecture hours + 0.5 hour for pre-lecture introductions)	

I.COURSE DESCRIPTION

This course will equip the participants with the essential knowledge on the operations of WESM, in greater detail. This is aimed at providing a deeper understanding of the Trading Operations in the WESM by employing in-depth discussions, illustrations using real market data and case studies, if applicable.

II.COURSE OUTLINE

#	торіс	DESCRIPTION	APPROX. LENGTH
I	Market Network Model (MN	1.5 hours	
I-1	-What is the market network model (MNM) -MNM development and maintenance	Procedures in development of Market Network Model (MNM), including the rationale for MNM development and the responsibilities of the Market Operator on MNM.	
II-2		Criteria for the Market Network Model	
		MNM Components and Modeling; Sample MNM	
		Updating the MNM	
II	Load Forecasting Methodology		45 mins
II-1	Forecasting Basics	Background, concept and processes in performing Load Forecasting.	
II-2	STLF Methodology	Load Forecasting Methodologies: Short- Term Load Forecasting (SDLF)	
II-3	VSTLF Methodology	Methodology and Very Short-Term Load Forecasting (VSTLF) Methodology	
II-4	WESM Forecasting Method	Application of TOD Method and Load forecasting considerations including weather data, load demand, power system condition, among others.	



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#	торіс	DESCRIPTION	APPROX. LENGTH	
III	Procedures For Normal Svs	Procedures For Normal System Condition		
III-1	-Pre-dispatch market projection	Week-Ahead Projection (WAP), Day- Ahead Projection (DAP), Hour-Ahead Projection (HAP) and the execution timelines	3 hours	
III-2	-RTD process	-Information Requirements -Timelines		
		 Real-Time Dispatch (Ex-Ante) Process Information Requirements Timeline of RTD Process 		
		Summary of the different market runs		
III-3	-Bids and offers	Generator Categories as defined in the WESM Rules [Scheduled, Self-Scheduled (Non-scheduled, Must-Dispatch, Priority Dispatch), Pump-Storage Unit, Battery Energy Storage System]		
		Market Offer Design for scheduled and self-scheduled generators; Standing offers/bids, Market Window, Generation Offer and bilateral arrangements; Tie- breaking Rule		
		Impact on market results of non- compliances		
III-4 III-5 III-6 III-7 III-8 III-9	-Outage scheduling -Contingency planning -System status report -Dispatch implementation -Daily operations report -Market information publication	Other Considerations and Reporting		
IV	Management Procedure for		1 hour	
IV-1	Background	Introduction to load shedding		
IV-2	Responsibilities	Responsibilities of involved parties		
IV-3	Load Shedding Procedures	Pre-conditions/requirements for Load Shedding; Manual and Automatic Load Dropping; Load Shedding Allocation Program		



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#	ТОРІС	DESCRIPTION	APPROX. LENGTH		
V	Procedures for Start-up and	d Shutdown of Generators	1 hour		
V-1 V-2 V-3	-Start-up of generating units -Shutdown of generating units -Courses of action if trading requirement is violated	Principles for the Start-up of Generating Units; Trading and Dispatch Requirements; Unit Start-up Sequence; Provisions for Starting up Generating Units; Unit Shutdown Sequence; Provisions for Shutting Down Generating Units			
VI	Generator Re-dispatch		45 mins		
VI-1 VI-2 VI-3	-Introduction to must-run units -Responsibilities of involved parties -Considerations and criteria for selection -Pricing and Settlement for re-dispatch generators and MRUs	Procedures and criteria for the selection and management of Must-Run Units (MRU); Contrained-on generators and Issuance of re-dispatch instructions of the System Operator; Pricing used for MRUs and re-dispatch generators and provision for additional compensation			
VII	Procedures for Emergency System Condition				
VII-1	-Market Suspension and Intervention	Establishes the guidelines and procedures that will be implemented in the			
VII-2	-System Emergency Restoration	WESM for declaring market intervention and for the actions that will be carried out			
VII-3	-Report and Documentation of Events	during market intervention. It also describes the procedures to be implemented when the ERC suspends the market or declares market failure and responsibilities of each entity for system restoration.			