

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 (approximately8 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
Ι	Market Network Model (MN	IM) Development and Maintenance	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	SDLF Methodology	Load Forecasting Methodologies: Similar Day Load Forecast (SDLF) Methodology	
II-3	LDP Methodology	and Load Predictor (LPD) 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
	Dreadures For Normal Sug	2 hours	
III-1	Procedures For Normal Sys -Pre-dispatch market	Week-Ahead Projection (WAP) and Day-	3 hours
	projection	Ahead Projection (DAP) and the execution timelines	
III-2	-RTD and RTX processes	<ul> <li>Real-Time Dispatch and Ex-post</li> <li>Processes</li> <li>Information Requirements</li> <li>Dispatch Engine Workflow</li> <li>Timeline of RTD and RTX Processes</li> <li>Determination of Ex-Ante Quantity</li> <li>Conditions for Initial Quantity</li> </ul>	
III-3	-Bids and offers	Generator Categories as defined in the WESM Rules (Scheduled, Non-scheduled, NRE)	
III-4	-Outage scheduling -Contingency planning	Market Offer Design for scheduled and	
III-4 III-5	-System status report	non-scheduled generators; Standing	
III-6	-Dispatch implementation	offers/bids, Market Closing, Generation	
III-7	-Daily operations report	Offer and bilateral arrangements; Tie-	
III-8	-Market information	breaking Rule	
III-9	publication	Impact on market results of non- compliances	
		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	
V	Procedures for Start-up and		1 hour
V-1	-Start-up of generating units	Principles for the Start-up of Generating	
V-2 V-3	-Shutdown of generating units	Units; Trading and Dispatch Requirements; Unit Start-up Sequence;	
C-A	-Courses of action if trading requirement is violated	Provisions for Starting-up Generating Units; Unit Shutdown Sequence; Provisions for Shutting Down Generating Units	
VI	Management of Must-Run L	Jnits	45 mins



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VI-1 VI-2	-Introduction to must-run units -Responsibilities of involved	Procedures and criteria for the selection and management of Must-Run Units (MRU)	
VI-3	parties -Considerations and criteria for selection		
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.	