



**Generation Dispatcher
Certification Examination Content Outline**

Content Area	# of Questions
I. Real-Time Operations	36
<ul style="list-style-type: none"> Electrical theory Frequency and Area Control Error Generation and transmission equipment <ul style="list-style-type: none"> Voltage Limits Thermal Limits Stability Limits Unit reactive capability (e.g., D-curve) Equipment failure Relaying protection and control Voltage control and voltage schedules Generation control and performance <ul style="list-style-type: none"> Monitoring dispatch signal Shutting down and starting up units Effects of weather on unit performance Operations reporting <ul style="list-style-type: none"> Reactive Reserve Check (RRC) Supplemental Status Report (SSR) data Instantaneous Reserve Check (IRC) Report changes in unit capabilities Reporting system events to PJM and government agencies Verbal communication of directives and operating instructions Generation check out 	
II. Emergency Operations	21
<ul style="list-style-type: none"> Capacity shortages and light-load conditions Low-voltage and high-voltage conditions Conservative operation (e.g., severe weather, GMDS, terrorism, sabotage) System disturbances (e.g., synchronous reserves, loss of facility) Loss of control center functionality 	

III. System Restoration	11
Start up of black start generating units	
Unit start-up and synchronization procedures	
System restoration reporting requirements	
Critical and priority loads	
IV. Operations Planning and Scheduling	16
Scheduled Outage Notifications	
eDART	
Timelines	
Reporting criteria	
Markets Gateway Updates	
Unit testing procedures	
V. Computer and Telecommunication Systems	6
Computer equipment	
Integrity and quality of data and data links	
Data requirements	
Scheduling work on data systems	
Telecommunications equipment	
PJM All-Call	
Satellite phones	
TOTAL	90

Note. The PJM Generation Dispatcher certification examination consists of 110 exam question. 90 of those questions contribute to an examination candidate's score and are selected according to the above content sampling. The remaining 20 questions do not contribute to a candidate's score and may not reflect the same distribution as the scored questions.