

PowerWorld Simulator Software Training

Note: Specific topics and timing are subject to change, within the general areas of one-line diagram creation, contouring, contingency analysis, linear sensitivity analysis, Python automation, and market modeling.

Delivered at: Calpine Corporation
717 Texas Ave, Suite 1000
Houston, TX, 77002
Presented by: PowerWorld Corporation

March 26, 2025

8:30	-	10:00	I1: The PowerWorld Simulator Case Editor and One-line Diagrams (with Emphasis on Diagram Creation, Area and Tie-Line Interface Objects)
10:00	-	10:15	Break
10:15	-	10:45	I1: The PowerWorld Simulator Case Editor and One-line Diagrams (continued)
10:45	-	11:45	I5: Data Aggregation using Areas, Zones, Interfaces, Super Areas, Injection Groups (emphasis on Difference Flows)
11:45	-	12:00	I6: Contouring (with Emphasis on Area Objects)
12:00	-	1:00	Lunch
1:00	-	1:30	I6: Contouring (continued)
1:30	-	2:15	I8: Generator and Area MW Control through Interconnected System Operation
2:15	-	2:30	S3: Techniques for Conditioning Hard-to-Solve Cases
2:30	-	2:45	Break
2:45	-	4:00	S3: Techniques for Conditioning Hard-to-Solve Cases (continued)
4:00	-	4:30	I9: Limit Monitoring Settings

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8:30	-	9:30	I11: Linear Analysis (PTDF, TLR, GSF, LODF, OTDF)
9:30	-	10:15	I10: Intro to Contingency Analysis
10:15	-	10:30	Break
10:30	-	12:00	S4: Advanced Contingency Modeling
12:00	-	1:00	Lunch
1:00	-	1:30	S4: Advanced Contingency Modeling (continued)
1:30	-	2:30	I4: Auxiliary File Format: DATA Section (with discussion of Case Info Displays)
2:30	-	2:45	Break
2:45	-	3:00	I12: Auxiliary File Format: SCRIPT Section
3:00	-	4:30	P2: SimAuto and Python Basics

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8:30	-	9:30	P2: SimAuto and Python Basics (continued)
9:30	-	10:15	M2: LMP Markets and Optimal Power Flow (OPF)
10:15	-	10:30	Break
10:30	-	11:30	M2: LMP Markets and Optimal Power Flow (continued)
11:30	-	12:00	M8: Developing an LMP Analysis for a Multi-Area Case
12:00	-	1:00	Lunch
1:00	-	3:00	M8: Developing an LMP Analysis for a Multi-Area Case