

# EOPS (Emergency Operations with PowerSimulator)

EOPS is a group of challenging courses where students master situational awareness, decision-making, and action in Real-time emergency operations. While system operators may spend their entire careers without ever seeing a voltage collapse or a blackout, recognizing and acting on a looming emergency or recovering quickly from a failure is key to system reliability.

PowerSimulator 5™, the same EPRI OTS power system model used in the world's most sophisticated control centers, is at the core of the EOPS simulations.

## What You Learn

After becoming familiar with the simulator in the first course, PowerSimulator Communication Protocols, you move on to practice reliable switching and managing MW flows. Tougher challenges teach you to deal with voltage collapse, system shutdown and restoration, generation management, balancing, and interchange.

## The EOPS Experience

While the day-to-day monitoring and adjusting of system variables can become routine, everyday operations can quickly turn to catastrophic breakdown. Danger lies in the inability to recognize and act on approaching emergencies. EOPS simulator courses train you to recognize patterns and clues that signal danger. By incorporating generic and actual historic emergency situations, the simulation sensitizes you to potential emergencies. When the system collapses, you can replay the events and learn to avoid them in the future. We hope you never see a catastrophic emergency, but if one comes your way, you need to be prepared.

## NERC Training Standards

In response to the emerging NERC standards, especially with respect to job tasks and operator training, the tutorials in EOPS have been designed to let the student learn and then perform tasks. EOPS exercises enable students to perform tasks under a range of contingencies and challenging conditions.



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SOS Intl. and NERC ID SOS\_INTL\_001 is recognized by the North American Electric Reliability Corporation as a continuing education provider who adheres to NERC Continuing Education Program Criteria.

## EOPS PROGRAM – ONLINE

	PRICE	CEH	STAND	SIM	EO
<b>EOPS.1 TRANSMISSION I</b>	\$ 900	18.5	18.5	10	18.5 <sup>†</sup>
<i>Purchase the Program and save \$118 off total combined price</i>					
<b>EOPS.2 TRANSMISSION II</b>	\$ 1,050	23	21	9.5	23 <sup>†</sup>
<i>Purchase the Program and save \$215 off total combined price</i>					
<b>EOPS.3 BALANCING, INTERCHANGE AND GENERATION</b>	\$ 620	12.5	12.5	3.5	12.5 <sup>†</sup>
<i>Purchase the Program and save \$87.50 off total combined price</i>					
<b>EOPS.4 BALANCING, INTERCHANGE, GENERATION with POWERSIMULATOR™ &amp; COMMUNICATIONS PROTOCOLS</b>	\$ 870	17.5	17.5	6	17.5 <sup>†</sup>
<i>Purchase the Program and save \$112.50 off total combined price</i>					
<b>EOPS.5 MARKET OPS</b>	\$ 620	12.5	12.5	12.5	12.5 <sup>†</sup>
<i>Purchase the Program and save \$87.50 off total combined price</i>					
<b>EOPS.6 EOPS COMPREHENSIVE</b>	\$ 2,300	49	47	20.5	49 <sup>†</sup>
<i>Purchase the Program and save \$395 off total combined price</i>					

	EOPS.1	EOPS.2	EOPS.3	EOPS.4	EOPS.5	EOPS.6	CEH	STAND	SIM	EO
EOPS Balancing			X	X	X	X	3.5	3.5	1	3.5 <sup>†</sup>
EOPS Generation Management			X	X	X	X	6	6	1.5	6 <sup>†</sup>
EOPS Interchange			X	X	X	X	3	3	1	3 <sup>†</sup>
Intro. to PowerSimulator for Market Operations					X		-	-	-	-
Managing MW Flows	X					X	9	9	5	9 <sup>†</sup>
PowerSimulator & Communications Protocols	X	X		X		X	5	5	2.5	5 <sup>†</sup>
Preventing Voltage Collapse		X				X	8	6	3.5	8 <sup>†</sup>
Reliable Switching	X					X	4.5	4.5	2.5	4.5 <sup>†</sup>
System Restoration		X				X	6.5	6.5	3	6.5 <sup>†</sup>
System Shutdown		X				X	3.5	3.5	0.5	3.5 <sup>†</sup>

<sup>†</sup> For PER compliance, EO training must be applicable to each individual organization. SOS hours are recommendations only. Please check with your compliance group for eligibility.