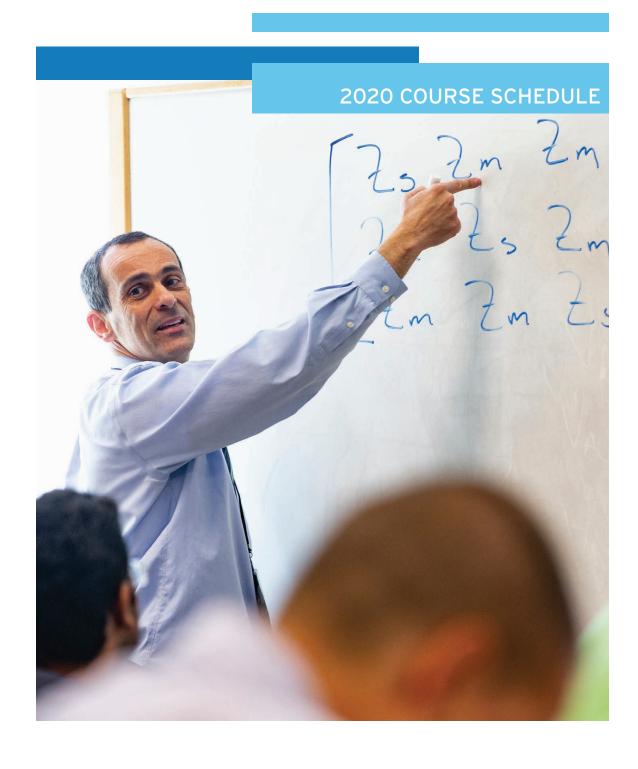
SEL UNIVERSITY







		Q1				Q2			Q3			Q4		
COURSE	COURSE NAME	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
APP 101	HANDS-ON INTRODUCTION TO SEL RELAYS		19-20 LAKEWOOD, CO					8–9 VACAVILLE, CA	•			4-5 TUPELO, MS		
APP 351	SEL-351 PROTECTION SYSTEM			25–26 LAKEWOOD, CO	•									
APP 411L	SEL-411L ADVANCED LINE CURRENT DIFFERENTIAL PROTECTION, AUTOMATION, AND CONTROL SYSTEM									15–16 FAIRVIEW HEIGHTS, IL				
APP 451	SEL-451 PROTECTION, AUTOMATION, AND BAY CONTROL SYSTEM		4–6 FAIR OAKS RANCH, TX											
APP 651R	SEL-651R ADVANCED RECLOSER CONTROL						2–4 PORTLAND, OR		12–13 CHARLOTTE, NC					
APP 700G	SEL-700G GENERATOR PROTECTION RELAY					19–20 VACAVILLE, CA	•							
APP 710	SEL-710 MOTOR PROTECTION RELAY	29–30 CHARLOTTE, NC												
APP 735	SEL-735 POWER QUALITY AND REVENUE METER					19-20 DES MOINES, IA	•							
APP 751	SEL-751 FEEDER PROTECTION RELAY						10-11 PHOENIX, AZ							
APP 3530	SEL-3530 REAL-TIME AUTOMATION CONTROLLER (RTAC)		4-6 PHOENIX, AZ	17–19 CHARLOTTE, NC 24–26 PROVO, UT 24–26 MONTREAL, QC	7–9 BARRIE, ON 28–30 PULLMAN, WA		9–11 IRVINE, CA	21–23 PLYMOUTH, MI	18–20 VACAVILLE, CA		20–22 BISMARCK, ND	17—19 FAIR OAKS RANCH, TX	8-10 PHOENIX, AZ	
APP 3530 ADV-1	INTRODUCTION TO IEC 61131 IN THE RTAC		25-27 CHICAGO, IL			12–14 NASHVILLE, TN 19–21 LAKEWOOD, CO	16–18 PULLMAN, WA			22–24 CHARLOTTE, NC	6–8 PHOENIX, AZ 20–22 BATON ROUGE, LA	3–5 BARRIE, ON 3–5 IRVINE, CA 17–19 MONTREAL, QC		
APP ICON	SEL ICON® INTEGRATED COMMUNICATIONS OPTICAL NETWORK										28–29 PULLMAN, WA			





		Q1			Q2				Q3			Q4		
COURSE	COURSE NAME	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
PROT 300	SYMMETRICAL COMPONENTS: THEORY AND APPLICATION				28–30 PULLMAN, WA						20–22 CHARLOTTE, NC			
PROT 301	PROTECTING POWER SYSTEMS FOR TECHNICIANS						23–25 LYNNWOOD, WA				6-8 NASHVILLE, TN			
PROT 401	PROTECTING POWER SYSTEMS FOR ENGINEERS	13-17 LAS VEGAS, NV		9–13 FAIR OAKS RANCH, TX	20–24 VACAVILLE, CA	11–15 PULLMAN, WA	22–26 CHARLOTTE, NC			Sep. 28-Oct. 2 LAKEWOOD, CO	26–30 PHOENIX, AZ		7–11 IRVINE, CA	
PROT 403	DISTRIBUTION SYSTEM PROTECTION						15–18 PULLMAN, WA			Sep. 29—Oct. 1 KING OF PRUSSIA, PA				
PROT 405	INDUSTRIAL POWER SYSTEM PROTECTION		10—13 BATON ROUGE, LA											
PROT 407	TRANSMISSION LINE PROTECTION									15–17 CHARLOTTE, NC				
PROT 409	GENERATION SYSTEM PROTECTION			17–19 ORLANDO, FL										
PROT 411	SUBSTATION EQUIPMENT PROTECTION									Sep. 29-Oct. 2 BILLINGS, MT	•			
PROT 413	GENERATION STATION PROTECTION				20–24 BARRIE, ON									
PWRS 400	POWER SYSTEM FUNDAMENTALS FOR ENGINEERS								17–20 PULLMAN, WA					
COM 201	MULTIPLEXING AND TDM COMMUNICATIONS										27 PULLMAN, WA			
COM 401	DATA COMMUNICATIONS FUNDAMENTALS					5-8 CHARLOTTE, NC	•							
TST 101	SEL RELAY TESTING BASICS				15–16 IRVINE, CA								2-3 CHARLOTTE, NC	
TST 103	SEL FEEDER RELAY TESTING							14–16 CHARLOTTE, NC						
SYS 407	SOFTWARE-DEFINED NETWORKS								18–20 PULLMAN, WA					

FULL-TIME INSTRUCTORS



DR. HÉCTOR J. ALTUVE FERRER

Dean of SEL University

Héctor J. Altuve received his BSEE degree from the Central University of Las Villas (UCLV) and his PhD degree from Kiev Polytechnic Institute. He served on the faculty at UCLV, the Autonomous University of Nuevo León, and Washington State University. Dr. Altuve joined SEL in 2001, where he is currently a distinguished engineer and dean of SEL University. He has authored and coauthored more than 100 technical papers and several books and holds four patents. Dr. Altuve is an IEEE fellow.



DEMETRIOS TZIOUVARAS

Professor

Demetrios A. Tziouvaras received his BSEE from the University of New Mexico and MSEE from Santa Clara University. He joined SEL in 1998 and has over 40 years of power system protection experience. He previously worked at Pacific Gas and Electric Company, where he held various positions, including principal protection engineer. He holds five patents in the area of power system protection and has authored and coauthored more than 60 technical papers. He is an IEEE senior member and an executive member of the U.S. National Committee of CIGRE.



RICK BRYSON

Senior Instructor

Rick Bryson received his BS in computer science from Texas A&M University. He has over 25 years of experience developing firmware, software, and integration solutions for RTUs, controllers, and SCADA systems in the oil, gas, water, wastewater, and electrical utility markets. After many years working as a senior engineer in SEL's research and development division, Rick joined SEL University as a full-time instructor in 2018. He previously served on the DNP Technical Committee.



RICARDO ABBOUD

Professor

Ricardo Abboud received his BSEE degree in electrical engineering from Universidade Federal de Uberlândia. In 1993, he joined CPFL Energia as a protection engineer. In 2000, he joined SEL as a field application engineer, assisting customers in substation protection and automation. Ricardo held the roles of field engineering manager, engineering services manager, and international technical manager before joining SEL University as a full-time professor in 2019.

ABOUT SEL UNIVERSITY

SEL University trains power system professionals in areas ranging from fundamental power system protection principles to hands-on product application and testing. We provide the training you need to make electric power safer, more reliable, and more economical. Our power system experts have trained tens of thousands of industry professionals worldwide.

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We offer courses at various locations throughout the year. Subjects include:

- Power system fundamentals.
- · Protection fundamentals.
- · Networking and data communications fundamentals.
- · Hands-on SEL product application and testing.
- Advanced hands-on integration and design.

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- Choose a standard course or mix and match standard course content to meet your needs.
- Reduce travel expenses, and train more employees at one time.
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SEL University is accredited by the International Association for Continuing Education and Training (IACET). SEL University complies with the ANSI/IACET Standard, which is recognized internationally as a standard of excellence in instructional practices. As a result of this accreditation, SEL University is accredited to issue the IACET CEU.

