



NATIONAL

FOURTH YEAR LESSONS – INSTRUCTOR’S REFERENCE

LESSON	CONTENT	EMC CHAPTER	SEDB CHAPTER	NEC® ARTICLES
401	Orientation and Safety			
402	Community First Aid & Safety			
403	Community First Aid & Safety			
404	Solid State Electronic Control Devices	12		
405	Electromechanical and Solid State Relays	13		
406	Advanced Controls Lab #1			
407	Photoelectric and Proximity Controls	14		
408	Programmable Controllers	15		
409	Advanced Controls Lab #2			
410	Mid-Term Review and Exam	12–15		
411	Reduced Voltage Starting	16		430
412	Accelerating and Decelerating Methods	17		
413	Advanced Controls Lab #3			430
414	Preventative Maintenance and Troubleshooting	18		
415	Advanced Controls Lab #4			430
416	Leadership			
417	Semester Review	12–18		430
418	Semester Exam	12–18		
419	Using Digital Multimeters to Diagnose Power Quality			
420	National Electrical Code® and Related Standards, Safety Regulation, Power Systems		1–5	100, 110, 240, 250
421	Power Distribution Systems	11		
422	Services, Switchboards, and Panelboards		6, 7	100, 230, 408
423	Conductors and Overcurrent Protection Devices		8, 9	100, 240, 310

LESSON	CONTENT	EMC CHAPTER	SEDB CHAPTER	NEC® ARTICLES
424	Grounding		10, 11	250, 680
425	Designing and Installing Wiring Systems		12, 13	See Lesson
426	Branch and Feeder Circuits		14, 15	210. 215, 220
427	Mid-Term Review and Exam		1–15	
428	Receptacle and Lighting and Switching Outlets		16, 17	100, 210, 410, 680
429	Motors and Compressor Motors		18, 19	100, 430, 440, 460
430	Hazardous Locations		21	500, 501, 502, 503, 504
431	Hazardous Locations, Special Types		21	511, 513, 514, 515, 516
432	Signs and Sign Connections			600
433	Load Calculations		22, 23, 24	See Lesson
434	Final Code Review and Test Preparation			
435	Fourth Year Review	12–18	1–24	
436	Fourth Year Final Exam	12–18	1–24	