

## 8 Hours For 2022 License Renewal -Top Changes (Course Outline) (Timed)

	NEC Code Section	NEC Subject Topic	Time (Minutes)
<b>2020 NEC Changes</b>			
1	110.12(C)	Mechanical Execution of Work. Cables and Conductors.	8
2	110.22(A)	Identification of Disconnecting Means. General.	8
3	110.24(A)	110.24(A) Field Marking.	8
4	210.8(A)	GFCI Protection. Dwelling Units.	8
5	210.8(B)	GFCI Protection. Other Than Dwelling Units.	8
6	210.8(E)	Equipment Requiring Servicing.	8
7	210.8(F)	Outdoor Outlets.	8
8	210.12(D)	Branch Circuit Extensions or Modifications — Dwelling Units, Dormitory Units, and Guest Rooms and Guest Suites.	8
9	210.19(A)(1)	Branch Circuits. General.	8
10	230.46	Spliced and Tapped Conductors.	8
11	230.62	Barriers.	8
12	230.67	Surge Protection.	8
13	230.85	Emergency Disconnects.	8
14	240.6(C)	Restricted Access Adjustable-Trip Circuit Breakers.	8
15	250.104(A)	Metal Water Piping.	8
16	314.16(B)(5)	Equipment Grounding Conductor Fill.	8
17	334.30	Securing and Supporting.	8
18	338.10(B)(4)	Installation Methods for Branch Circuits and Feeders.	8
19	406.12	Tamper-Resistant Receptacles.	8
20	406.13	Single-Pole Separable-Connector Type.	8
21	408.80	Reconditioning of Equipment.	8
22	410.69	Identification of Control Conductor Insulation.	8
23	680.21(C) & (D)	GFCI Protection.	8
24	700.16(B)	System Reliability.	8
25	725.144(B)	Use of Class 2-LP or Class 3-LP Cables to Transmit Power and Data.	8
<b>NFPA 70E Electrical Safety</b>			
26	90.20	NFPA 70E Purpose and Scope.	8
27	100.00	Article 100 Definitions. Arc Rating.	8
28	100.00	Article 100 Definitions. Boundary, Arc Flash.	8
29	100	Article 100 Definitions. Boundary, Limited and Restricted Approach.	8
30	100.00	Article 100 Definitions. Incident Energy.	8
31	100.00	Article 100 Definitions. Qualified Person.	8
32	100.00	Article 100 Definitions. Working Distance.	8
33	110.1(I)	Job Safety Planning and Job Briefing.	8
34	110.2(A)(1)	Training Requirements. Qualified Person.	8
35	110.4	Test Instruments and Equipment.	8
36	110.4(E)	Operation Verification.	8
37	120.4(A)(4)	Simple Lockout/Tagout Procedure.	8
38	120.4(A)(5)	Complex Lockout/Tagout Procedure.	8
39	120.4(B)(1-3)	Elements of Control.	8
40	120.4(B)(4-6)	Elements of Control.	8
41	120.4(B)(7)	Temporary Protective Grounding.	8
42	120.4(B)(11)	Lockout/Tagout Application.	8
43	120.5(1-6)	Process for Establishing and Verifying an Electrically Safe Work Condition.	8
44	120.5(7)	Testing for Absence of Voltage.	8
45	130.2(B)	Energized Electrical Work Permit.	8
46	130.4	Shock Protection Boundaries.	8
47	Table 130.4(D)(a)	Shock Protection Approach Boundaries.	8
48	130.5(C)	Estimate of the Likelihood of Occurrence of an Arc Flash Incident for ac and dc Systems. Exercise 1.	8
49	130.7(C)(15)(a)	Arc-Flash Hazard PPE Categories for Alternating Current (ac) Systems. Exercise 1.	8
50	130.7(C)(15)(c)	Protective Clothing and Personal Protective Equipment (PPE).	8

<b>Total Time (In minutes):</b>	400
<b>UT 8 Hours Time Requirement</b>	8 Hours (400 Minutes)