

12 Hours For 2020 License Renewal (2020 NEC Update) (Course Outline) (Timed)

	NEC Code Section	NEC Subject Topic	Time (Minutes)
2020 NEC Changes			
1	Article 100	Fault Current & Available Fault Current.	8
2	Article 100	Free Air (as applied to conductors).	8
3	110.12(C)	Mechanical Execution of Work. Cables and Conductors.	8
4	110.22(A)	Identification of Disconnecting Means. General.	8
5	110.24(A)	110.24(A) Field Marking.	8
6	210.8	Ground-Fault Circuit-Interrupter Protection for Personnel.	8
7	210.8(A)	GFCI Protection. Dwelling Units.	8
8	210.8(B)	GFCI Protection. Other Than Dwelling Units.	8
9	210.8(D)	Specific Appliances.	8
10	210.8(E)	Equipment Requiring Servicing.	8
11	210.8(F)	Outdoor Outlets.	8
12	210.12(D)	Branch Circuit Extensions or Modifications — Dwelling Units, Dormitory Units, and Guest Rooms and Guest Suites.	8
13	210.19(A)(1)	Branch Circuits. General.	8
14	210.52(C)	Countertops and Work Surfaces.	8
15	210.52(C)(2)	Island and Peninsular Countertops and Work Surfaces.	8
16	210.63	Equipment Requiring Servicing.	8
17	230.46	Spliced and Tapped Conductors.	8
18	230.62	Barriers.	8
19	230.66	Marking.	8
20	230.67	Surge Protection.	8
21	230.75	Disconnection of Grounded Conductor.	8
22	230.85	Emergency Disconnects.	8
23	240.6(C)	Restricted Access Adjustable-Trip Circuit Breakers.	8
24	240.33	Vertical Position.	8
25	240.62	Reconditioned Equipment.	8
26	240.86	Series Ratings and Motor Contribution.	8
27	250.64(A)	Aluminum or Copper-Clad Aluminum Conductors.	8
28	250.104(A)	Metal Water Piping.	8
29	310.12	Single-Phase Dwelling Services and Feeders.	8
30	Table 310.15(B)	Ambient Temperature Correction Factors.	8
31	314.16(B)(5)	Equipment Grounding Conductor Fill.	8
32	314.27(C)	Boxes at Ceiling-Suspended (Paddle) Fan Outlets.	8
33	334.30	Securing and Supporting.	8
34	338.10(B)(4)	Installation Methods for Branch Circuits and Feeders.	8
35	406.12	Tamper-Resistant Receptacles.	8
36	406.13	Single-Pole Separable-Connector Type.	8
37	408.60	Short-Circuit Current Rating.	8
38	408.80	Reconditioning of Equipment.	8
39	408.18(C)	Connections.	8
40	408.43	Panelboard Orientation.	8
41	410.69	Identification of Control Conductor Insulation.	8
42	410.12	Access to Other Boxes.	8
43	410 Part XVI	Special Provisions for Horticultural Lighting Equipment.	8
44	590.4(G)	Splices.	8
45	680.21(C) & (D)	GFCI Protection.	8
46	690.12(B)(2)	Rapid Shutdown. Inside the Array Boundary.	8
47	700.12(I)(2)	Installation of Unit Equipment.	8
48	700.16(B)	System Reliability.	8
49	705.12	Load-Side Source Connections.	8
50	725.144(B)	Use of Class 2-LP or Class 3-LP Cables to Transmit Power and Data.	8
NFPA 70E Electrical Safety			
76	90.20	NFPA 70E Purpose and Scope.	8
77	100.00	Article 100 Definitions. Arc Rating.	8
78	100.00	Article 100 Definitions. Boundary, Arc Flash.	8
79	100	Article 100 Definitions. Boundary, Limited and Restricted Approach.	8
80	100.00	Article 100 Definitions. Incident Energy.	8
81	100.00	Article 100 Definitions. Qualified Person.	8
82	100.00	Article 100 Definitions. Working Distance.	8
83	110.1(I)	Job Safety Planning and Job Briefing.	8
84	110.2(A)(1)	Training Requirements. Qualified Person.	8
85	110.4	Test Instruments and Equipment.	8
86	110.4(E)	Operation Verification.	8
87	120.4(A)(4)	Simple Lockout/Tagout Procedure.	8
88	120.4(A)(5)	Complex Lockout/Tagout Procedure.	8

89	120.4(B)(1-3)	Elements of Control.	8
90	120.4(B)(4-6)	Elements of Control.	8
91	120.4(B)(7)	Temporary Protective Grounding.	8
92	120.4(B)(11)	Lockout/Tagout Application.	8
93	120.5(1-6)	Process for Establishing and Verifying an Electrically Safe Work Condition.	8
94	120.5(7)	Testing for Absence of Voltage.	8
95	130.2(B)	Energized Electrical Work Permit.	8
96	130.4	Shock Protection Boundaries.	8
97	Table 130.4(D)(a)	Shock Protection Approach Boundaries.	8
98	130.5(C)	Estimate of the Likelihood of Occurrence of an Arc Flash Incident for ac and dc Systems. Exercise 1.	8
99	130.7(C)(15)(a)	Arc-Flash Hazard PPE Categories for Alternating Current (ac) Systems. Exercise 1.	8
100	130.7(C)(15)(c)	Protective Clothing and Personal Protective Equipment (PPE).	8
Total Time (In minutes):			600
UT 12 Hours Time Requirement			12 Hours (600 Minutes)