2023-Theory & Calculations - 4 Hours (Course Outline)

Section ID	NEC Code Section	NEC Subject Topic	Time (Mins)
1		Types of Circuits	4
2		Types of Circuits	4
3		Watts, volts, ohms	4
4		Watts, volts, ohms	4
5		Resistance	4
6		Resistance	4
7	Article 100	Show Windows	4
8	Article 101	Show Windows	4
9	110.9	Interrupting Rating	4
10	110.9	Interrupting Rating	4
11	210.19	210.19(A)(1) Conductors — Minimum Ampacity and Size.	4
12	210.19	210.19(A)(1) Conductors — Minimum Ampacity and Size.	4
13	215.2(A)(1)	215.2(A)(1) Feeders. Minimum Rating and Size.	4
14	215.2(A)(1)	215.2(A)(1) Feeders. Minimum Rating and Size.	4
15	220.5(A) and (B)	220.5 Calculations	4
16	220.5(A) and (B)	220.5 Calculations	4
17	314.16	Number of Conductors in Outlet, Device, and Junction Boxes, and Conduit Bodies.	4
18	314.16	Number of Conductors in Outlet, Device, and Junction Boxes, and Conduit Bodies.	4
19	315.16	Number of Conductors in Outlet, Device, and Junction Boxes, and Conduit Bodies.	4
20	315.16	Number of Conductors in Outlet, Device, and Junction Boxes, and Conduit Bodies.	4
21	314.28(A)(1)	Straight pulls	4
22	314.28(A)(1)	Straight pulls	4
23	314.28(A)(2)	Angle pulls, U pulls and splices	5
24	314.28(A)(2)	Angle pulls, U pulls and splices	5
25	314.28(A)(2)	Angle pulls, U pulls and splices	5
26	314.28(A)(2)	Angle pulls, U pulls and splices	5
27	312.6	Angle Pulls, U Pulls and Splices & Table 312.6(A).	5
28	312.6	Angle Pulls, U Pulls and Splices & Table 312.6(A).	5
29	Table 310.16	Ampacity Table 310.16	4
30	Table 310.16	Ampacity Table 310.16	4
31	Table 310.16	Ampacity Table 310.16	4
32	Table 310.16	Ampacity Table 310.16	4
33	Table 310.15(C)(1)	Adjustment factors for more than three current carrying conductors	5
34	Table 310.15(C)(1)	Adjustment factors for more than three current carrying conductors	5
35	Table 310.15(B)(1)	Raceways on roof	5
36	Table 310.15(B)(1)	Raceways on roof	5
37	409.22	SCCR	5
38	409.22	SCCR	5
39	430.6	Ampacity and Motor Rating Determination	5
40	430.6	Ampacity and Motor Rating Determination	5
41	430.22	Motor Branch Circuits	5
42	430.22	Motor Branch Circuits	4
43	430.24	Several Motors or a Motor(s) and Other Load(s).	4
44	430.24	Several Motors or a Motor(s) and Other Load(s).	5
45	430.52	Motor Branch-Circuit Short-Circuit and Ground-Fault Protection.	3
46	430.52	Motor Branch-Circuit Short-Circuit and Ground-Fault Protection.	3
47	430.28	Motor tap rules. 10 ft.	3
48	430.28	Motor tap rules. 10 ft.	3
49	420.28	Motor tap rules. 25 ft.	3
50	420.28	Motor tap rules. 25 ft.	3
		Total Time (In minutes):	210
		UT 4 Hours Time Requirement	4 Hours (200 Minutes)