

HMI212

Installation Methods II – Course Plan

Week	Outcomes	Format	Hrs	Topic/Content	Readings	Assignments	Assessment	Resources
1, 2	1	Lecture	4	Review of HMI 202	Review codes	Questions from	Hand in	CEC, Residential Electrical
					sect. 6,8,10,26	text as	and/ortake	Wiring for all classes
				<u>Demonstrate</u> the ability to correctly	and HMI 202	assigned by	up	
				select and size overcurrent protection	Unit 16	instructor		
				<u>Demonstrate</u> installation common to				
				residential electrical wiring systems and				
				equipment in compliance with the CEC.				
		Lab	4	<u>Apply</u> : <u>Demonstrate</u> the correct	Code Sec. 14	Lab assignment	Evaluation	
		(cont. in		installation procedures and wiring			of practical	
		week 3)		connections for common residential			lab	
				switching devices and outlets with strict			assignment	
				adherence to the CEC and NBC.				
				Demonstrate proper installation	Ref. unit 17		Evaluation	
				procedures required for the following			of practical	
				wiring methods while insuring strict			lab	
				adherence to CEC regulations: non-			assignment	
				metallic sheathed cable, armoured				
				cable, mineral-insulated cable, metallic				
				sheathed cable, rigid / flexible conduit,				
				rigid metallic tubing, and electrical non-				
				metallic tubing. (Section 12)				
				<u>Demonstrate</u> the proper use of common				
				hand tools in the electrical trade.				
3	1	Lecture	2	General regulations regarding Class 2	Unit 22	Questions as	Hand in	
				signal and remote control circuits (Sect.	Sect. 16	assigned by	and/ortake	
				16 of CEC).		instructor	ир	
		Lab	2	Continue labs as indicated in weeks 1,2		Lab assignment		

4	1	Lecture	4	Review / Test #1			Test#1
5,6,	1	Lecture	5	Identify installation requirements for	Unit 22	Questions as	Hand in
½ of 7				electric heating installed in single	Code sec. 62	assigned by	and/or take
				dwelling occupancies as specified in the		instructor	up
				installation of electrical equipment,			
				section 62 of the CEC			
				-			
				Apply			
				Prepare a layout drawing for mast and			
				installation.			
		Lab	5	<u>Demonstrate</u> the ability to install a	Section 14, 16	Lab assignment	Evaluation
				complete 100 amp residential service			of practical
				including the following circuits:			lab
				hot water heaters, range outlets, dryer			assignment
				outlet, split duplex receptacle,			
				bathroom outlet, outside weather-			
				proof receptacle and general branch			
				circuits, etc. (Sections 6, 12, 26)			
½ of 7	1	Lecture	5	<u>Identify</u> requirements for the	Units 13, 23	Questions as	Hand in
8, 9				installation of pools, tubs and spas		assigned by	and/or take
				(Section 68).		instructor	up
				<u>Describe</u> enclosures and fittings to	Unit 20		
				electrical installations.			
		Lab	5	Apply		Lab assignment	Evaluation
				<u>Demonstrate</u> requirements for the			of practical
				installation of pools, tubs and spas			lab
				(Section 68) including the proper			assignment
				installation of enclosure and fittings			
				common to the electrical trade.			
10	1	Lecture	4	Review / Test #2			Test #2

11	1	Lecture	2	Interpret the CEC regulations regarding the installation of fire alarms, smoke, heat and carbon monoxide detectors located in dwelling units. (sec. 32) <u>Describe</u> The CEC regulations for fire alarms.	Unit 21 Unit 24	Questions as assigned by instructor	Hand in and/or take up
		Lab	2	<u>Demonstrate</u> the CEC regulations regarding the installation of fire alarms, smoke, heat and carbon monoxide detectors located in dwelling units.		Lab assignment	Evaluation of practical lab assignment
12, 13	1	Lecture	4	<u>Identify</u> installation requirements for lighting installed in single dwelling occupancies as specified in the installation of electrical equipment (section 30 of the CEC) <u>Identify</u> switch control of lighting circuits, receptacle bonding and induction heating resulting from unusual switch connections.	Unit 10 Unit 8	Questions as assigned by instructor	Hand in and/ortake up
		Lab	4	Demonstrate the correct installation procedures and wiring connections for common residential switching devices and outlets ensuring strict adherence to the CEC and to National Building Code (NBC) regulations. Demonstrate switch control of lighting circuits		Lab assignment	Evaluation of practical lab assignment
14	1	Lecture	2	<u>Identify</u> requirements for television, phone, data and home automation systems (Sections 54 & 60). <u>Identify</u> temporary wiring installations requirements for building or project under construction or demolition (section 76) of the CEC.	Unit 24 Sect. 54, 60	Questions as assigned by instructor	Hand in and/ortake up

		Lab	2	Apply	Lab assignment	Evaluation	
				Install / prepare for television outlets,		of practical	
				antennas, cable, etc.		lab	
				Install / prepare for CATV installation		assignment	
				requirements.			
				Prepare conduit for telephone			
				conductors, boxes and outlets.			
15	1	Lecture	4	Review / Test # 3		Test#3	
16	1			Take up test #3			