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PACIFIC GAS AND ELECTRIC COMPANY

PG&E + 245 MARKET STREET • SAN FRANCISCO, CALIFORNIA 94106 • (415) 781-4211

November 2, 1972

Local Union No. 1245  
International Brotherhood of  
Electrical Workers, AFL-CIO  
P. O. Box 4790  
Walnut Creek, California 94596

Attention: Mr. L. L. Mitchell, Business Manager

Gentlemen:

In order to reflect the need for changes in hours of training in the "on-the-job" sections of the guidelines for the Apprentice Electrician and Apprentice Communications Technician, Company proposes the changes underlined in red in the attached.

If you are in accord with the foregoing and the attachments and agree thereto, please so indicate in the space provided below and return one executed copy of this letter to Company.

Yours very truly,

PACIFIC GAS AND ELECTRIC COMPANY

By *J. M. Embright*  
Manager of Industrial Relations

The Union is in accord with the foregoing and it agrees thereto as of the date hereof.

LOCAL UNION NO. 1245, INTERNATIONAL  
BROTHERHOOD OF ELECTRICAL WORKERS, AFL-CIO

January 15, 1973, 1972 By *L. L. Mitchell*  
Business Manager

# APPRENTICE ELECTRICIAN TRAINING PROGRAM

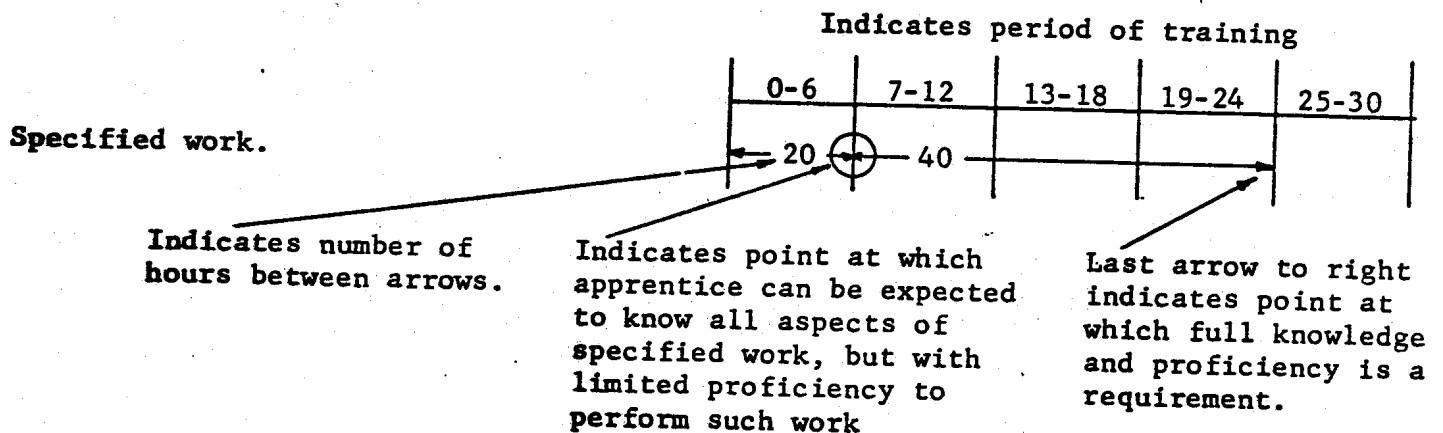
## SCHEDULE

ACADEMIC ASSIGNMENTS	0-6	7-12	13-18	19-24	25-30
1. Basic Electricity Course - Emeryville	160				
2. Basic Electronics Course - Emeryville		120			
3. Relay and Vector Course - Emeryville			120		
ON-THE-JOB ASSIGNMENTS					
1. Safety, First Aid, Resuscitation, etc.	← 8 →	← 8 →	← 8 →	← 8 →	← 8 →
2. Operating Procedures	← 16 →	← 16 →	← 16 →	← 24 →	
3. Job Orientation	← 8 →	← 8 →	← 12 →		
4. Job Methods, Procedures and Techniques	← 12 →	← 12 →	← 36 →		
5. Paper and Book Work	← 10 →	← 24 →	← 45 →		
6. Aerial Lifts	← 4 →	← 4 →	← 12 →		
7. Fire Control Systems	← 8 →	← 8 →	← 16 →		
8. Batteries, D-C Power Supplies	← 16 →	← 16 →	← 48 →		
9. Other D-C Equipment	← 8 →	← 8 →	← 24 →		
10. Meters and Metering	← 24 →	← 24 →	← 72 →		
11. Cooling Systems: Air, Liquid or Fluid	← 8 →	← 8 →	← 16 →		
12. Lubricating Systems	← 8 →	← 8 →	← 18 →		
13. Power Circuit Breakers: Oil, Air, Vacuum, etc.	← 54 →	← 62 →	← 62 →	← 124 →	
14. Transformers and Reactors	← 32 →	← 36 →	← 33 →	← 75 →	
15. Regulators and Regulating Transformers	← 38 →	← 46 →	← 54 →	← 72 →	
16. Capacitors and Controls	← 16 →	← 16 →	← 16 →	← 16 →	
17. A-C Rotating Equipment	← 10 →	← 18 →	← 18 →	← 32 →	

ON-THE-JOB ASSIGNMENTS (cont'd)	0-6	7-12	13-18	19-24	25-30
18. D-C Rotating Equipment	10	10	8	24	
19. Alarms, Annunciators, Telemetry, Supervisory, etc.	8	8	8	24	
20. Overhead Line Equipment		24		8	
21. Pneumatics, Hydraulics, and Mechanics	8	8	8	8	
22. Automatics: Transfer Schemes, Flip-Flop, Load Shedding, Reclosing, etc.	16	16	32	64	
23. Construction and Erection					
a. Conduit	24	24	24	48	
b. Pipes					
c. Iron Work					
d. Other					
24. Wiring and Cabling: Indoor and Outdoor	24	24	24	48	
25. Tools, Measuring Equipment, Test Equipment, etc.	24	24	24	50	
26. Hot Washing, Wiping	8	8	8	12	
27. Relays		48			24
28. Blueprints, Drawings, Sketches, Instruction Manuals, Standard Symbols, P. G. and E. Symbols, Drafting, etc.	24	24	24	48	
29. Air Switches: Automatic and Manual	16	16	16	24	24
30. Industrial Electronics		12		4	4
31. Communication Systems		12		12	
	442	580	612	795	60

GUIDE TO USE OF THE SCHEDULE

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ON-THE-JOB ASSIGNMENTS (Cont'd)	0-6	7-12	13-18	19-24
13. Learn to use more complex drawings.			← 20 →	⊗
14. Become familiar with mobile radio equipment and FCC regulations.	← 20 →	← 20 →	← 60 →	⊗
15. Learn fundamentals of teletype and facsimile equipment.			← 50 →	⊗
16. Become familiar with computer and peripheral devices. Be able to maintain peripheral devices.				← 100 → ⊗
17. Become familiar with microwave and associated equipment.	← 10 →	← 20 →	← 30 →	← 100 → ⊗
18. Become familiar with how various communication systems have mutual effects.				← 50 → ⊗
19. Be able to sketch communication circuits as means of expression when dealing with communications.				← 50 → ⊗
20. Be able to bench test communication equipment.	← 10 →	← 20 →	← 20 →	← 100 → ⊗
21. Be able to trouble shoot equipment in service.	← 10 →	← 10 →	← 10 →	← 100 → ⊗
22. Become familiar with special test equipment.	← 10 →	← 10 →	← 10 →	← 50 → ⊗
23. Radio and television interference.		← 50 →		⊗
24. Power line carrier and associated equipment.		← 50 →		⊗
25. Supervisory and telemetering equipment.		← 50 →		⊗

GUIDE TO USE OF THE SCHEDULE

