

**APPRENTICE RECORD
HEP OPERATOR
RELATED TRAINING**

BEGINNING W/GROUP #XXXIV-2

SUBJECT	TEXT	ASSIGNMENTS	EXAMS	DATE	SCORE
1. System Operations	See Chief Operator	Shift assignment to another Area Control Center-40 hours	None		
2. Prints and Drawings	Principles of Hydro-Electric Power, Volume I (HSC)	Chapter 13: 3 Study Hours Review	None		
	Principles of Hydro-Electric Power, Volume II (HSC)	Chapter 25: 3 Study Hours Request and complete Handout Exam.	Cha. 25		
	TPC Training Systems #101 Maintenance Fundamentals	Unit 101: 20 Study Hours Request and complete Handout Exam.	Unit 101		
	TPC Training Systems #102 Maintenance Fundamentals	Unit 102: 20 Study Hours Request and complete Handout Exam.	Unit 102		
3. Electrical and Mechanical Print Reading	Instructor's Materials	Classroom attendance at SJFD O&M - Training Center Class #13 - 40 Hours	Instructor Test		
4. Instrumentation	Basic Instrumentation, 3rd Edition, Petroleum Ext. Service	Chapter 1: 2 Study Hours Request and complete Handout Exam.	Cha. 1		
		Chapter 3: 2 Study Hours Request and complete Handout Exam.	Cha. 3		
		Chapter 4: 2 Study Hours Request and complete Handout Exam.	Cha. 4		
5. System Operations	See Chief Operator	Shift assignment to another Area Control Center-40 hours	None		
6. Instrumentation	Basic Instrumentation, 3rd Edition, Petroleum Ext. Service	Chapter 5: 2 Study Hours Request and complete Handout Exam.	Cha. 5		
		Chapter 6: 2 Study Hours Request and complete Handout Exam.	Cha. 6		
		Chapter 7: 2 Study Hours Request and complete Handout Exam.	Cha. 7		
		Chapter 9: 2 Study Hours Request and complete Handout Exam.	Cha. 9		
		Chapter 10: 2 Study Hours Request and complete Handout Exam.	Cha. 10		
		Chapter 11: 2 Study Hours Request and complete Handout Exam.	Cha. 11		
		Chapter 12: 2 Study Hours Request and complete Handout Exam.	Cha. 12		
		Chapter 13: 2 Study Hours Request and complete Handout Exam.	Cha. 13		
	Principles of Hydro-Electric Power, Volume II (HSC)	Chapter 26: 2 Study Hours Request and complete Handout Exam.	Cha. 26		

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4. Mechanical Hydraulic Governors	Principles of Hydro-Electric Power, Volume I (HSC)	Chapter 11: 3 Study Hours Request and complete Handout Exam.	Cha. 11		
	Corp. of Engineers Supplement #20	Supplement #20: 4 Study Hours Request and complete Handout Exam.	Supl. 20		
	Woodard Governor Company Bulletins: #25031, #25014A, and #11004A	Read for reference only: 6 Study Hours	None		
5. Generators, Voltage Regulators, and Governors	Principles of Hydro-Electric Power, Volume II - Review Ch. 19, 20, 21, 22, 28 & 29	On the job field assignment to an area with generation to start/stop/protect generation equipment: 40 Study Hours	Supervisor to Certify		
	Corps. Of Engineers Supplement #20 - Review				
6. High Voltage Switching	Instructor's Materials	Classroom attendance at SJFD O&M - Training Center Class #23 - 40 Hours	Instructor Test		
7. Governors and System Operations	Instructor's Materials	Classroom attendance at SJFD O&M - Training Center Class # 14 - 40 Hours	Instructor Test		
8. Extra High Voltage	G.E. Technical Pamphlet #7207 - GE Art of Protective Relaying	Read and submit a report as to why EHV systems need to be treated differently than lower voltage systems: 6 Study Hours	Supervisor to Certify		
9. System Operations	Principles of Hydro-Electric Power, Volume II (HSC)	Chapter 31: 2 Study Hours Request and complete Handout Exam.	Cha. 31		
		Chapter 32: 2 Study Hours Request and complete Handout Exam.	Cha. 32		
		Chapter 33: 2 Study Hours Request and complete Handout Exam.	Cha. 33		
		Chapter 34: 2 Study Hours Request and complete Handout Exam.	Cha. 34		
		Chapter 35: 2 Study Hours Request and complete Handout Exam.	Cha. 35		
10. PLC/SCADA	Instructor's Materials	Classroom attendance at SJFD O&M - Training Center Class #15 - 40 Hours	Instructor Test		
11. Auxiliary Systems	Plant piping prints	Submit a folder of hand drawn diagrams showing all air, oil, and water services to a main unit: 48 Study Hours	Supervisor to Certify		
5. System Operations	See Chief Operator	Shift assignment to another Area Control Center-40 hours	None		

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SUBJECT	TEXT	ASSIGNMENTS	EXAMS	DATE	SCORE
13. Safe Clearance Procedures	Project O&M Instruction OP-2	Classroom work, Operations to certify.	Instructor Exam		
14. 4th Six Month Final Exam	Review all text study material	Field Division Proctor to administer. Closed-book 4th-Six Month Final Exam	4th Six Month Final Exam		
15. 4th Six Month Achievement Test	Hands-on demonstration of proficiency	During working hours, task to be selected and graded by Supervisor.	Supervisor Test		