SOUTHERN CALIFORNIA SURVEYORS JOINT APPRENTICESHIP COMMITTEE

A JOINT LABOR-MANAGEMENT TRAINING PROGRAM



CHAINMAN APPRENTICESHIP PROGRAM ON THE JOB TRAINING WORK PROCESSES

0 to 500 Hours

Apprentice A -

Introduction to:

TOOL CARE AND SAFETY

- 1. Use and care of hand tools
- 2. Care of survey vehicle and equipment
- 3. Care and handling of survey instruments
 - a. Removing from and replacing in the box
 - b. Carrying equipment mounted on a staking staff or tripod
 - c. Setting up instruments
- *4. Safety practices
 - a. First Aid and First Aid Kits
 - b. Use of sharp tools
 - c. Precautions for jobsite hazards
 - 5. Understanding survey terminology and use of hand signals
 - 6. Procedures for stake driving and marking and placing of guard stakes of witness lath

Apprentice B -

500 to 1,000 Hours

Review of skills 1-6, introduction to:

FIELD STAKING PROCEDURE

- 7. Use of stationing systems
- *8. Methods of note keeping and sketching
- 9. Setting of bench marks and turning points
- 10. Setting of survey monuments
- 11. Rules of good public relations and relations between colleagues

Apprentice C -

1,000 to 2,000 Hours

Skilled in 1-6, review of 7-11, introduction to:

SURVEY INSTRUMENT OPERATION

- 12. Operation of a level and level note keeping
- *13. Use of GPS/RTK
 - 14. Use of scanners

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Apprentice D -

2,000 to 3,000 Hours

Skilled in 1-11, review of 12-14, introduction to:

ADVANCED FIELD METHODS

- 15. Methods for peg adjustment of a level
- 16. Methods of plan reading
- 17. Methods of preparing grades and cut sheets
- 18. Methods of referencing survey control/ties
- 19. Topographic survey procedures

Apprentice E -

3,000 to 4,000 Hours

Skilled in 1-19, introduction to:

FIELD CALCULATION

- 20. Methods of basic field calculation
- 21. Methods and application of staking curves horizontal and vertical
- 22. Project control calculation and traverse adjustment

Apprentice F -

4,000 to 5,000 Hours

Skilled in 1-22, introduction to:

QUALITY ASSURANCE

- *23. Staking procedures for various projects
- *24. Preparation of stakes and materials for jobsite layout
- 25. Identification of safety hazards
- 26. Review of staking information for accuracy
- *27. Electronic transfer and filing of job information

Apprentice G -

5,000 to 6,000 Hours

Skilled in 1-27, introduction to:

PROJECT PLANNING

Chainman

- 28. Identification of required jobsite accuracy
- 29. Techniques of analyzing jobs for efficient procedures
- 30. Basic criteria and procedures for property surveys

*Skilled in 1-30. Complete Program as a journeyman chainman

These topics include "green curriculum".

Wage rates effective 10-01-20 through 09-30-21

6,000 Hours