GLAZIERS, ARCHITECTURAL METAL AND GLASS WORKERS

Minimum Industry Training Criteria

O-Net Code 47-2121.00

**Length OF Training**

The term of apprenticeship for GLAZIER shall be for four (4) years/seven thousand five hundred (7500) hours. The first seven hundred fifty (750) hours, extending over not more than six (6) months, shall be a probationary period.

**Related and Supplemental (classroom) Instruction**

Apprentices shall satisfactorily complete prescribed courses of Related and Supplemental Instruction (RSI), which will be 160 hours per year for 3 years. The total of classroom hours required is 480. This instruction must include at a minimum the related and supplemental training processes listed in Appendix ‘A”.

**On-The-Job Training (OJT) Work Processes**

- General Cutting (Glass) 250 Hours
- General Cutting and Replacements 1,750 Hours
- Mirrors and Specialties 250 Hours
- Miscellaneous and General Shop 750 Hours
- Fabrication of Store Front Metal 1,750 Hours
- Setting of Store Front, Window Wall and Curtain Wall Systems 1,750 Hours
- Doors and Door Hardware 250 Hours
- Caulking, weatherization, Insulation, & Green Practices 500 Hours
- Layout 250 Hours

**Minimum on the job training (OJT) Hours** 7,500 Hours
**Competency Testing**

All apprentices must pass a competency test prior to the time of their classification advancement to the next higher period. The test shall be based on all Related Supplemental Instruction and manipulative skills tests based on laboratory assignments.

**Program Completion Percentages**

Program Sponsors must have a 40% graduation rate of all apprentices that satisfactorily complete the first year of the program.

**Review and Revision Procedures**

The Glaziers, Architectural Metal and Glass Workers Advisory Committee shall meet at the call of the chair or no less than once each three years to review and revise if necessary the Industry Training Criteria. This Glaziers, Architectural Metal and Glass Workers Training Criteria shall be in accordance with California Code of Regulations, Title 8, Section 212, in its entirety.
GLAZIERS, ARCHITECTURAL METAL AND GLASS WORKERS

Minimum Industry Training Criteria

APPENDIX A

1. Hand Tools and Power Tools
2. Glass Handling and Cutting
3. Man Lifting Devices
4. Solvents and Hazardous Materials
5. First Aid/CPR/AED
6. Glass Replacement and Putty Glazing
7. Art (Stained) Glass
8. Labor History
9. Mathematics for the Glazing Trade
10. Aquariums-Shower Doors—Tube Enclosures-Showcases
11. Mirrors
12. Communication Skills
13. Layout Segmented Radius
14. Storefronts
15. Blueprints
16. Doors
17. Glazing
18. Aluminum Entrances
19. Curtainwall
20. Ribbon Wall Systems
21. Pressurewall
22. Skylights, Sloped Glazing
23. Spandrel, Architectural Panel System
24. Insulated and High Performance Glass
25. Safety Glazing Codes
26. Photovoltaic Glass
27. Insulated and High Performance Glass
28. OSHA 30
29. Solar Collectors and Skylights
30. Plastics
31. Foreman Training
32. Suspended Glazing
33. Welding Processes as per the AWS (American Welding Society)
34. AWS D1.1 Structural Welding Code-Steel
35. Describe sustainability and the social, environmental, and economic impact.
36. Identify the benefits of sustainability.
37. Explain the purpose of sustainability in commercial and residential buildings.
38. Identify professional “Green” organizations.
39. Identify elements of sustainability.
40. Explain the importance of green practices.
41. Define green bid specifications.
42. Identify and interpret a green specification in a project manual.
43. Source and cost out green products.
44. Describe the elements involved with sustainable sites.
45. Describe water efficiency practices.
46. Determine energy and atmospheric requirements.
47. Identify and describe effective materials and resources.
48. Discuss indoor environmental quality standards.
49. Discuss the “Green” innovation and design process.
50. Identify and discuss the LEED-NC Process.
51. AWS D1.2 Structural Welding Code-Aluminium
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<td>Phone</td>
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Alex Beltran  
Chairman

John Kusper  
Co-Chair