

CALIFORNIA APPRENTICESHIP COUNCIL

Voice-Data-Video Industry Advisory Committee

Sound and Communication / VDV

Minimum Industry Training Criteria

O*NET CODE 49-2022.00

Revised August 2020

Sound and Communications / VDV Industry

Minimum Training Criteria

O*NET CODE 49-2022.00

1. Length of Training

Program sponsors shall establish a minimum of a three (3) year program of not less than 4,800 hours of on-the-job training.

2. Related Supplemental Instruction

The required prescribed courses of related and supplemental instruction shall be no less than 150 hours per year. This instruction must include at a minimum the related and supplemental training processes listed in Exhibit “A”.

3. On-the-Job Training

Skills to be learned: See Exhibit “B”.

4. Competency Testing

All apprentices must pass a competency test prior to the time of their advancement to the next higher level. The tests shall be based on all Related and Supplemental Instruction and manipulative skills test based on laboratory assignments. Periodic testing shall be done during each level of coursework and apprentices shall not advance to the next level unless they have achieved an average score of 70% or higher. Tests shall be based on all Related and Supplemental Instruction and laboratory assignments.

5. Completion Percentages

Program sponsors must have a graduation rate of at least 50% of the average completion rate for the applicable trade, or 45%, whichever is greater of all apprentices that satisfactorily complete the first year of the program.

6. Revisions

The schedule for revisions to the Sound and Communications Industry Training Criteria shall be in accordance with Labor Code Section 212.01

EXHIBIT “A”

Related and Supplemental Instruction Topics

- | | | | |
|----|--|----|--|
| 1 | Safety, OSHA 10 & 30 First Aid/CPR/AED | 22 | Electronic Device Literacy |
| 2 | Anti-Harassment Training | 23 | Structured Cabling |
| 3 | DC Theory | 24 | Telephony and Voice Communication |
| 4 | AC Theory | 25 | Fundamentals of Programming |
| 5 | Codes, Standards, Installation Practices | 26 | Mobile Work Platforms |
| 6 | Title 24 Awareness and Sustainability Best Practices | 27 | Internet of Things (IoT) |
| 7 | Construction Documentation and Communication (physical and electronic) | 28 | Interpersonal, Supervisory and Leadership Skills |
| 8 | Audio Visual Systems | | |
| 9 | Video Surveillance Systems Fiber Optics | | |
| 10 | Fire Alarm / Mass Notification and Life Safety | | |
| 11 | Grounding and Bonding | | |
| 12 | Network Systems | | |
| 13 | CATV/SATV | | |
| 14 | Master Clock Systems | | |
| 15 | Nurse Call Systems | | |
| 16 | Intercom, Paging and Sound Reinforcement Systems | | |
| 17 | Power Supplies and Power Conditioning | | |
| 18 | Metering, Testing Equipment and Troubleshooting | | |
| 19 | Wireless Communications | | |
| 20 | DAS (Distributed Antenna Systems) | | |
| 21 | Security and Access Control Systems | | |

EXHIBIT “B”

Work Processes

1. Component Installation
2. Green- Recycling of old components and packaging materials based on the construction site’s waste management plan.

3. Wire and Cable Installation
4. Green- Reduce waste. Use of water based cable pulling lubricants. Caulking penetrations using low (VOC) emitting materials to prevent the spread of fire and increased building energy efficiency.

5. Splicing and Termination
6. Green- Use of water based cable cleaners. Recycling of scrap materials based on construction site’s waste management plan.

7. Maintenance and Service
8. Green- Recycling of old components and packaging materials, use of water based cleaners.

9. Testing, Commissioning, and Start-Up

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