



**CALIFORNIA APPRENTICESHIP COUNCIL  
Voice-Data-Video Industry  
Advisory Committee**

# **Sound and Communication / VDV**

## **Minimum Industry Training Criteria**

**O\*NET CODE 49-2022.00**

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". Additional focus on environmental awareness, energy efficiency, renewable and sustainable resources and recycling has been added in this 2010 revision.

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 45% graduation rate 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

### For Sound and Communications / VDV Industry Criteria

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#### **RELATED AND SUPPLEMENTAL INSTRUCTION**

- |                                              |                                         |
|----------------------------------------------|-----------------------------------------|
| 1 Safety, First Aid/CPR                      | 14 Grounding and Bonding                |
| 2 DC Theory                                  | 15 Network Systems                      |
| 3 AC Theory                                  | 16 MATV/CATV/SATV                       |
| 4 Codes, Standards, Installation Practices   | 17 Master Clock Systems                 |
| 5 C.C.R. Title 24, Part 11 Cal Green Code    | 18 Nurse Call Systems                   |
| 6 Sustainable Jobsite Practices              | 19 Paging and Mass Notification Systems |
| 7 L.E.E.D. Certification / Energy Efficiency | 20 Power Quality                        |
| 8 Blueprints                                 | 21 RF Communications                    |
| 9 Conductors – Wire and Cable                | 22 Security and Access Control Systems  |
| 10 Audio Visual Systems                      | 23 Computer Literacy                    |
| 11 Closed Circuit Television                 | 24 Sound Reinforcement Systems          |
| 12 Fiber Optics                              | 25 Structured Cabling                   |
| 13 Fire Alarm / Life Safety                  | 26 Telephony                            |

# EXHIBIT “B”

## Work Processes

For Sound and Communications / VDV Industry Criteria

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### WORK PROCESSES

- A. Component Installation
  - Green- Recycling of old components and packaging materials based on the construction site’s waste management plan.
- B. Wire and Cable Installation
  - 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.
- C. Splicing and Termination
  - Green- Use of water based cable cleaners. Recycling of scrap materials based on construction site’s waste management plan.
- D. Maintenance and Service
  - Green- Recycling of old components and packaging materials, use of water based cleaners.
- E. Testing, Commissioning, and Start-Up



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The foregoing Criteria is hereby agreed to and adopted

|                        |                    | <u>Date</u>    |
|------------------------|--------------------|----------------|
| Ken Miller, Chair      | <u>Ken Miller</u>  | <u>9/29/10</u> |
| Kevin Hartnett         | _____              | _____          |
| Don R Davis            | _____              | _____          |
| Kim Briggs             | _____              | _____          |
| Rick Hecht             | _____              | _____          |
| Dick Johnson           | _____              | _____          |
| Scott Stephan          | _____              | _____          |
| Steve Jatala, Co-Chair | <u>[Signature]</u> | <u>9-29-10</u> |

August 19, 2010

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