



# Apprenticeship Program Update

Engineering and Operations Committee

Item 6b

July 12, 2021

# What is Apprenticeship?

- Partnership between industry, education and government
- Comprehensive academic and on-the-job training (OJT) to achieve journey-level



**Santiago Canyon College**



CALIFORNIA COMMUNITY COLLEGES  
CHANCELLOR'S OFFICE



# Program Background

- Dwindling skilled labor market for electricians and mechanics
- Partnership between Water System Operations, Human Resources, and AFSCME Local 1902
- Promotes long-term workforce stability
- Certified by the State of California
- First class began 2003 – completed in 2007





# Program Structure

- 4 year program
  - 7,280 hours
- 8 periods of study
  - Classroom training
  - On-the-job training
  - 36 units toward Associates Degree
- Diamond Valley Lake Training Center
- Local community colleges



# Program Governance

- State Division of Apprenticeship Standards
- Local Education Agency
- Joint Apprenticeship and Training Committee
- Apprenticeship Policies and Procedures
- Program Administration



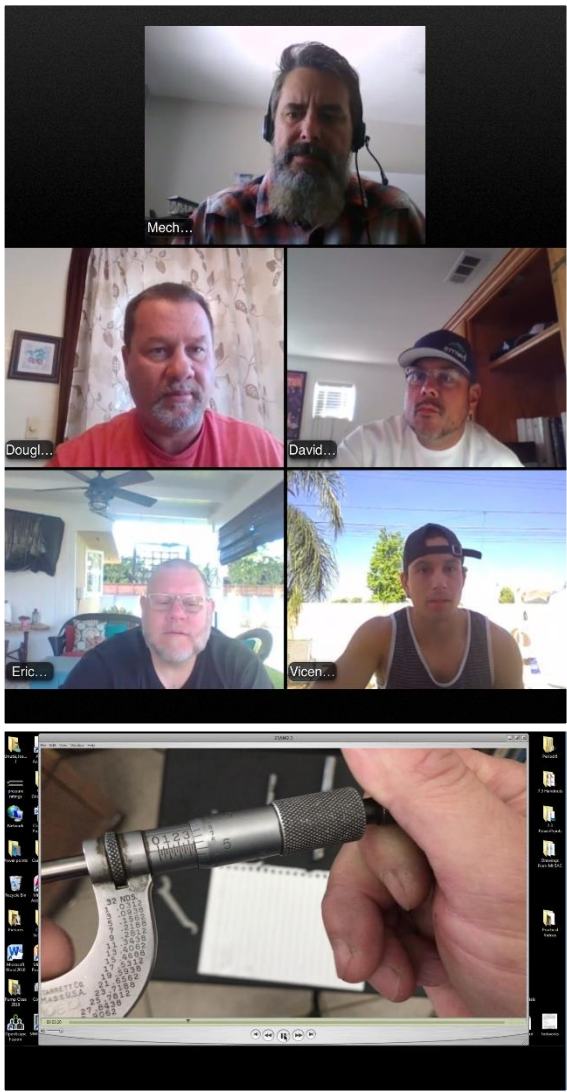
# Classroom Training

- Program Instruction
  - Mechanical and electrical instructors
  - Adjunct faculty with Santiago Canyon College
  - Off-site specialized instruction
- Classroom and Practical Training
  - 640 hours of class
  - Exams
  - Home study





# Classroom Training

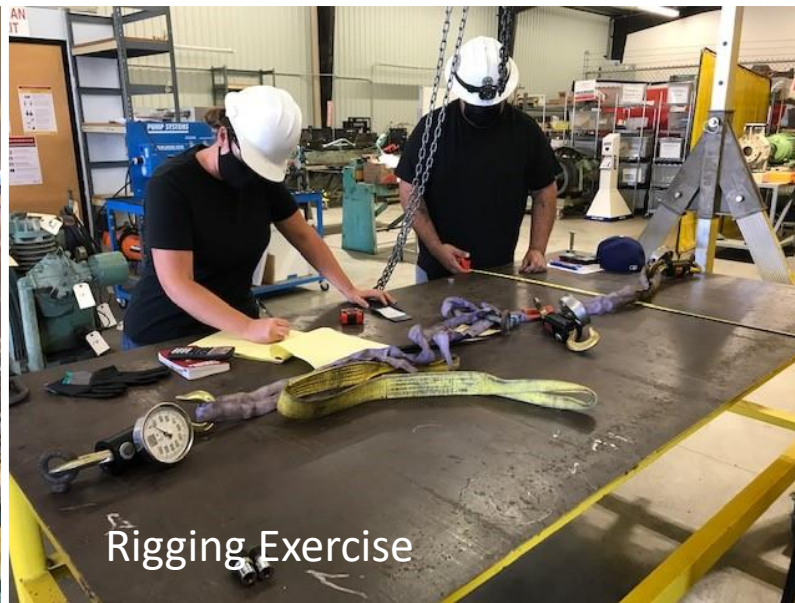




# Practical Training



Valve Demonstration



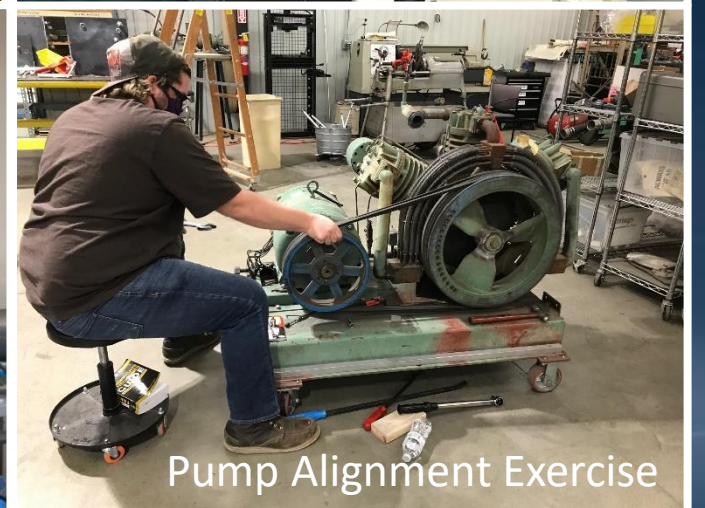
Rigging Exercise



Virtual Welding



Electrical Wiring Exercise

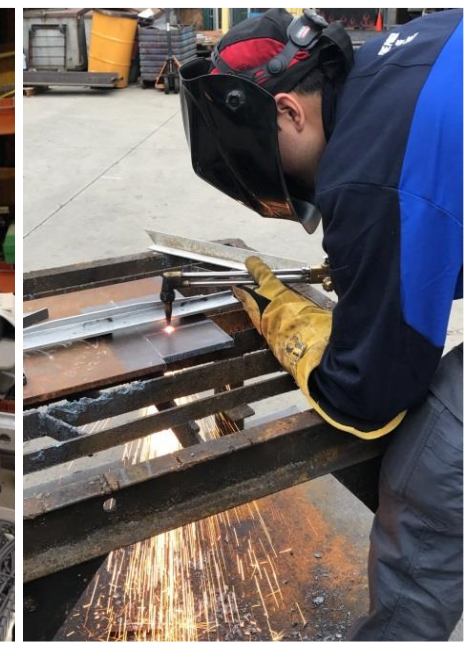


Pump Alignment Exercise



# On-the-Job Training

- Journey-level mentor
- Practical experience
- 6,640 hours of OJT





# Congratulations Class of 2020

Q&A: What was the most valuable lesson in the apprenticeship?

*“Probably just the confirmation that a person really can learn to do anything if they really apply themselves. I came into the apprenticeship with zero experience related to this field of work. But I wanted to learn these trade skills and build a new career. All it really takes to accomplish anything is desire and dedication.”*

- Class of 2020 Apprentice





# Recruitment Process



# Recruitment Resources

- Recruitment January 2022
- Metropolitan Water District's Website



Recruitment

Human Resources  
Group



Recruitment  
Outreach

Equal Employment  
Opportunity Office



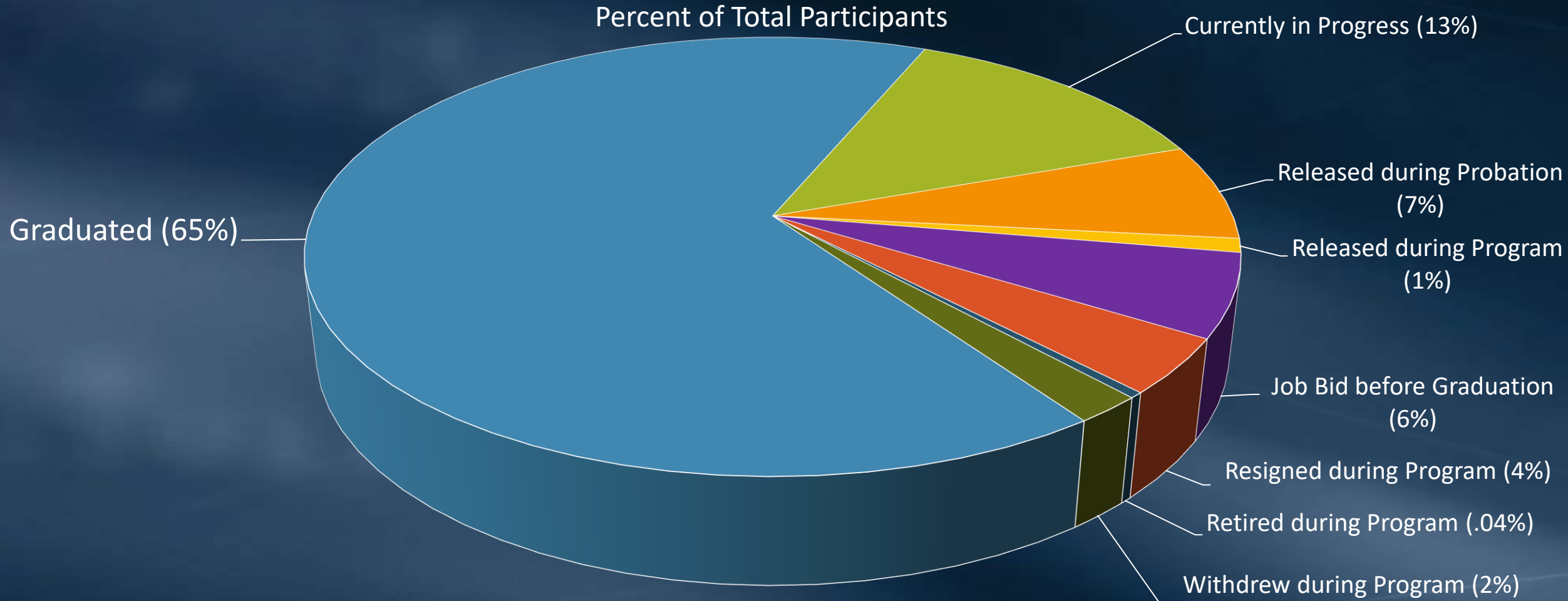
Frequently Asked  
Questions

- General Program Information
- Recruitment
- Application / Testing Process
- Assigned Locations



# Apprenticeship Program

218 total participants from 2003 to 2021



# Apprenticeship Program Innovation

## Virtual Learning





# Apprentice Innovation

- Lake Mathews Forebay Operations
  - Class of 2016 Graduate
- Electric Cart and Trailer
  - Class of 2021 Graduate





# Planned Relocation of Apprentice Training Center



Apprentice Training Center

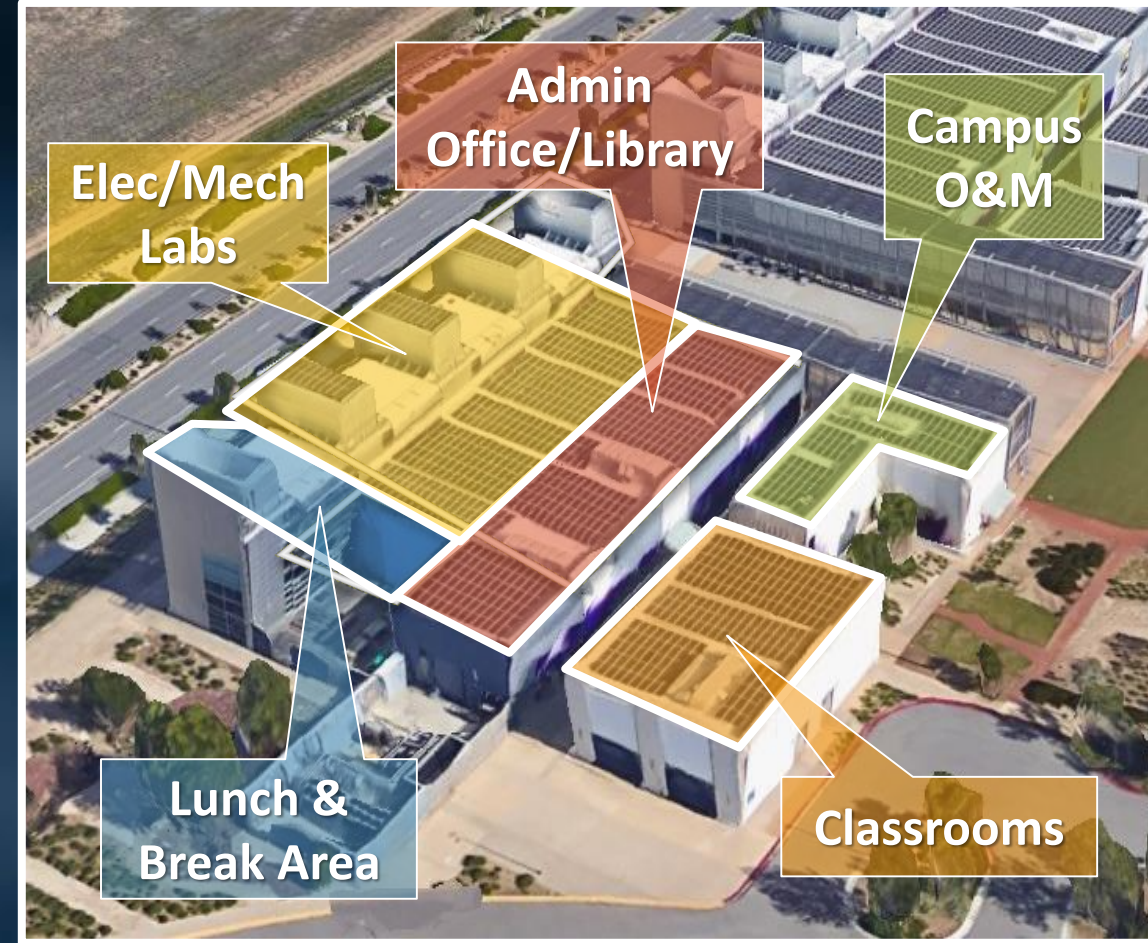


DVL Visitor Center Site



# Future Apprenticeship Program Facilities

- Repurposed DVL Visitor Center building
  - Significant increase in shop and classroom space
  - Opportunities for additional equipment
  - Increased lunch and break areas
- Classroom relocation in 2022
- CIP planned for shop and other facility improvements



# Summary - Upcoming Program Initiatives

- Expand program to journey-level skills development
- Update equipment, simulator trainers, and A/V equipment
- Perform comprehensive program review and update curriculum
- Relocate Apprenticeship Program facilities to new location at DVL Visitor Center site





# Summary - Program Benefits

- Reliable supply of certified mechanics and electricians
- Diverse applicants reflect service area
- Training on Metropolitan systems and equipment
- Pathway for Associate's Degree
- Upon completion – fully prepared to “hit the ground running”



