

APCT : Apprenticeship Construction Technology

New Degrees and Certificates:

1. Presentation to Academic Senate, including:

- Anticipated resources and costs, including classified professional support and administrative oversight

The only resources needed are Admission and Records to enroll the students into the college. The courses are taught offsite at the Teamsters Regional Training Center.

- Need or demand: o CTE (LMI, advisory board)

Approved by the Automotive Advisory Board on May 4,

2022. LMI, see attached

o Transfer

N/A

o Local (similar programs in service area, some measure of need)

The closest program to this is at Mission College, Santa Clara.

Mission appropriateness – educational master plan (not required for Transfer programs)

Relevant to: offers educational opportunities and support for completion of students' career-technical goals

- Curriculum required – course sequence

Apprenticeship Construction Technology See attached file.

- FTEF required (if applicable)

N/A

- Implementation schedule

Fall 2023 with CPL for students currently taking the Teamster classes.

- Program Student Learning Outcomes (PSLOs)

See attached file

- Program map (as part of the Guided Pathway process)

See attached file

LPC Mission Statement

Las Positas College is an inclusive, learning-centered, equity-focused environment that offers educational opportunities and support for completion of students' transfer, degree, and career-technical goals while promoting lifelong learning.

LPC Planning Priorities

- ❖ Implement the integration of all ACCJC standards throughout campus structure and processes.
- ❖ Establish a knowledge base and an appreciation for equity; create a sense of urgency about moving toward equity; institutionalize equity in decision-making, assessment, and accountability; and build capacity to resolve inequities.
- ❖ Increase student success and completion through change in college practices and processes: coordinating needed academic support, removing barriers, and supporting focused professional development across the campus.

Automotive Technology Advisory

Sam Balanon, Livermore Auto Mall
Anthony Bertucci, Subaru
Patrick Chand, CCC Foundation
Al Crispin, America's Tire
Don Danner, Granada High School
Thomas Duvall, Snap-On Tools
Scott Farabee, Subaru
Jim Franz, FH Dailey
Jeff Gil, Gil's Body Works
Brian Hagopian, Las Positas College
Sebastian Hood, LPC Student
Dean Johnson, Napa Auto Parts
Kevin Kramer, Las Positas College
Carl Kuo, R&C Auto Service
Tom Lajoie, Subaru
Matt Levin, Dublin VW
Juan Maldonado, Ford Motor Co.
Brian McKee, Hunter Engineering
Heather Morelli, Tri-Valley ROP
Bob Paredes, Snap-On Tools
Jeff Pawlowski, Allen's Auto & Towing
America Perez, El Monte RV
Skot Randall, Tri-Valley ROP
Darren Rees, Castro Valley Adult School
Louis Rodriguez, Dublin Hyundai
George Romero, Tri-Valley Auto Body
Ray Smit, Subaru
Vicki Shipman, Las Positas College
Larry Weiss, Castro Valley Adult School
James Weston, Las Positas College
Eric Wong, Subaru
Ed Woodworth, Tri-Valley ROP

MEETING MINUTES

Present: Brian Hagopian, Helena Cruz, Vicki Shipman, Paul Wimer, Ed Woodworth, Brian McKee, Eric Wong, James Weston, Ray Smit, Tony Bertucci, Bob Paredes, Larry Weiss, Delbert Wimmer

1. Welcome and Introductions

2. Approval of Prior Meeting Minutes – 12/1/2021

- Ed Woodworth motioned to approve, Brian McKee seconded
- Motion passed – Minutes approved

3. Industry Update (Emerging Trends, Technology, Job Market)

- **Ray Smit. Tony Bertucci** – Subaru
 - Livermore is one of the fastest growing areas of responsibility (AOR) which means that we are looking at 44% growth in operation through 2027 which is great, because that sends a message that we need technicians and technical skills in the market.
 - In addition, they have also made one of the more sizable investments in a brand new facility that should provide more space for technicians to come in and do apprenticeships work.
 - LPC has been classified as a Subaru U school, and the LMS is open for us to access.
 - Technicians are lacking certain skill sets; particularly electricity
- **Brian McKee** – Hunter Engineering
 - ADAS is becoming increasingly more prevalent and is incredibly critical
 - We've done live demonstrations with Chabot College
 - We work well with Subaru and have a strong partnership there
- **Ed Woodworth** – Tri-Valley ROP
 - Dublin Honda and Dublin Mazda are looking for technicians, and parts individuals.

4. Faculty Report

- College Updates – Brian Hagopian
 - Enrollment – (110 Credit/8 Noncredit) 82% Fill Rate for Spring 2022
 - Summer 2022 – offering 2 programs
 - Summer Maintenance Program: 4-day class, 6 hours a day for \$100 aimed at students 14-17 years old.
 - How to Build a Car Stereo
 - New Equipment – New nitrogen fill for tires, and lift racks
- High School Report – Ed Woodworth
 - Enrollment for my classes is pretty low with only 20 students; I think post-COVID has a lot to do with that.

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 Eric Wong, Subaru
 Ed Woodworth, Tri-Valley ROP

- Subaru U
 - *Subaru U* is a new partnership developed between Subaru and Las Positas College. It is an OEM educational program that instills Subaru's web-based training into the curriculum so that students can receive their entry-level training that is required from Subaru.
 - For more information about this program visit <https://www.subaru-u.com/>

5. Curriculum


- **Las Positas College Apprenticeships**
- *Reddaway Truck Driving Certificate* Recommendation
 - Delbert Wimmer motioned to approve, James Weston seconded - APPROVED
- *Marine Technology Certificate* Recommendation
 - Brian McKee motioned to approve, Larry Weiss seconded - APPROVED
- *Teamsters Heavy Construction Driving Certificate* Recommendation
 - Ed Woodworth motioned to approve, Delbert Wimmer seconded - APPROVED

6. Recommendations from the Advisory Board

- The Automotive Technology Advisory Board recommends:
 1. Las Positas College moves forward with the writing and submission of the curriculum for the Reddaway Truck Driving Certificate, Marine Technology Certificate, and Teamsters Heavy Construction Driving Certificate.
 2. Las Positas College accepts the partnership with *Subaru U*
 3. Las Positas College seeks internship opportunities with Ford and Subaru
 4. Las Positas College hosts an event to welcome people to the campus and get them interested in the Automotive Technology program; invite members and companies from Advisory Board, and the local High Schools.

7. Next Regular Meeting (Date) – December 2022 (HyFLEX)

8. Adjournment



Heavy and Tractor-Trailer Truck Drivers in San Francisco-Oakland-Berkeley, CA

Contents

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What is Emsi Data?

Emsi data is a hybrid dataset derived from official government sources such as the US Census Bureau, Bureau of Economic Analysis, and Bureau of Labor Statistics. Leveraging the unique strengths of each source, our data modeling team creates an authoritative dataset that captures more than 99% of all workers in the United States. This core offering is then enriched with data from online social profiles, resumés, and job postings to give you a complete view of the workforce.

Emsi data is frequently cited in major publications such as *The Atlantic*, *Forbes*, *Harvard Business Review*, *The New York Times*, *The Wall Street Journal*, and *USA Today*.

 The Atlantic Forbes Harvard Business Review The New York Times WSJ USA TODAY

Report Parameters

1 Occupation

53-3032 Heavy and Tractor-Trailer Truck Drivers

1 MSA

41860 San Francisco-Oakland-Berkeley, CA

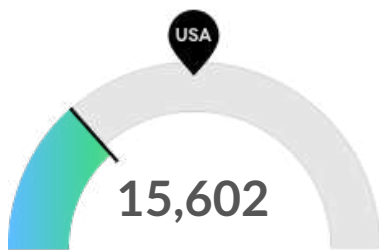
Class of Worker

QCEW Employees, Non-QCEW Employees, and Self-Employed

The information in this report pertains to the chosen occupation and geographical area.

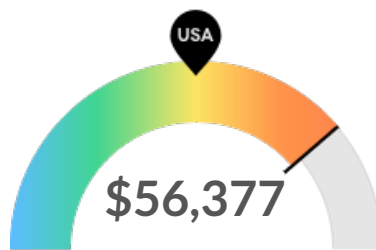
Executive Summary

Aggressive Job Posting Demand Over a Thin Supply of Regional Jobs



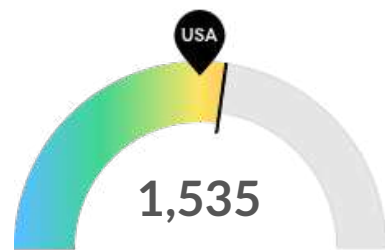
Jobs (2022)

San Francisco-Oakland-Berkeley, CA is not a hotspot for this kind of job. The national average for an area this size is 34,552* employees, while there are 15,602 here.



Compensation

Earnings are high in San Francisco-Oakland-Berkeley, CA. The national median salary for Heavy and Tractor-Trailer Truck Drivers is \$46,974, compared to \$56,377 here.



Job Posting Demand

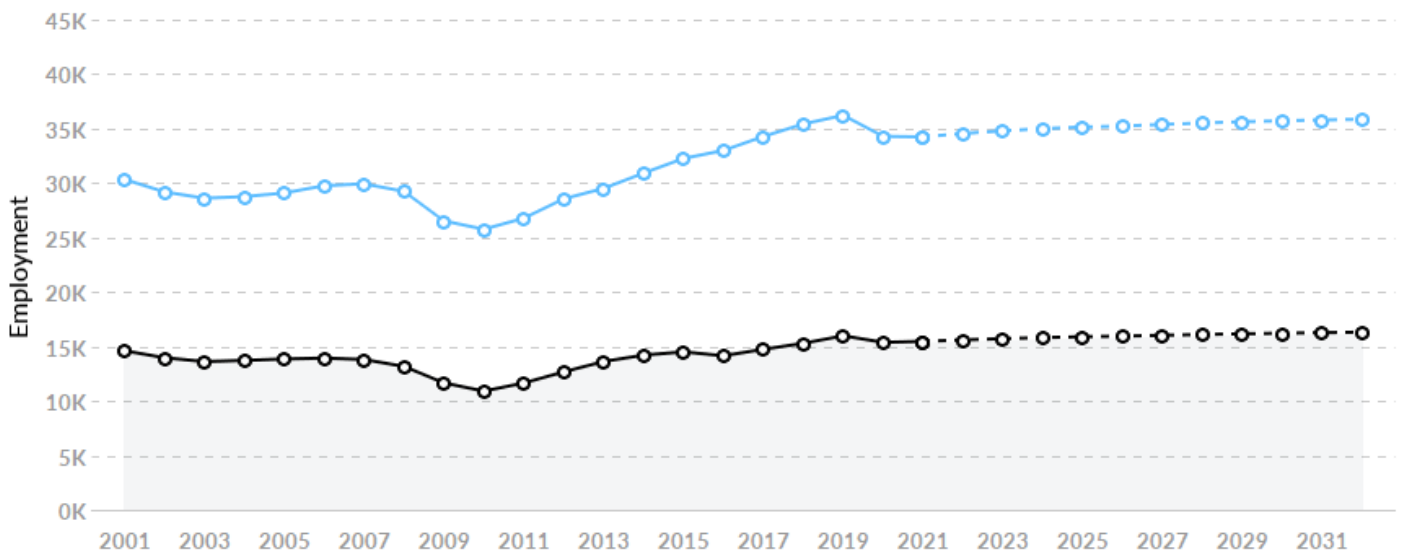
Job posting activity is high in San Francisco-Oakland-Berkeley, CA. The national average for an area this size is 1,353* job posting/mo, while there is 1,535 here.

*National average values are derived by taking the national value for Heavy and Tractor-Trailer Truck Drivers and scaling it down to account for the difference in overall workforce size between the nation and San Francisco-Oakland-Berkeley, CA. In other words, the values represent the national average adjusted for region size.

Jobs

Regional Employment Is Lower Than the National Average

An average area of this size typically has 34,552* jobs, while there are 15,602 here. This lower than average supply of jobs may make it more difficult for workers in this field to find employment in your area.



Region	2022 Jobs	2027 Jobs	Change	% Change
● San Francisco-Oakland-Berkeley, CA	15,602	16,028	426	2.7%
● National Average	34,552	35,382	830	2.4%

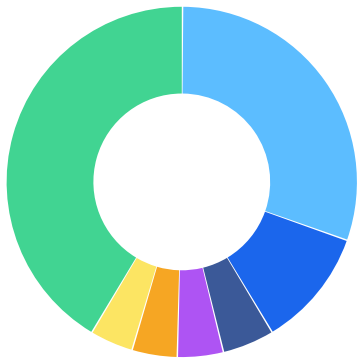
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Regional Breakdown



County	2022 Jobs
Alameda County, CA	8,180
Contra Costa County, CA	2,680
San Mateo County, CA	2,108
San Francisco County, CA	2,070
Marin County, CA	565

Most Jobs are Found in the General Freight Trucking Industry Sector

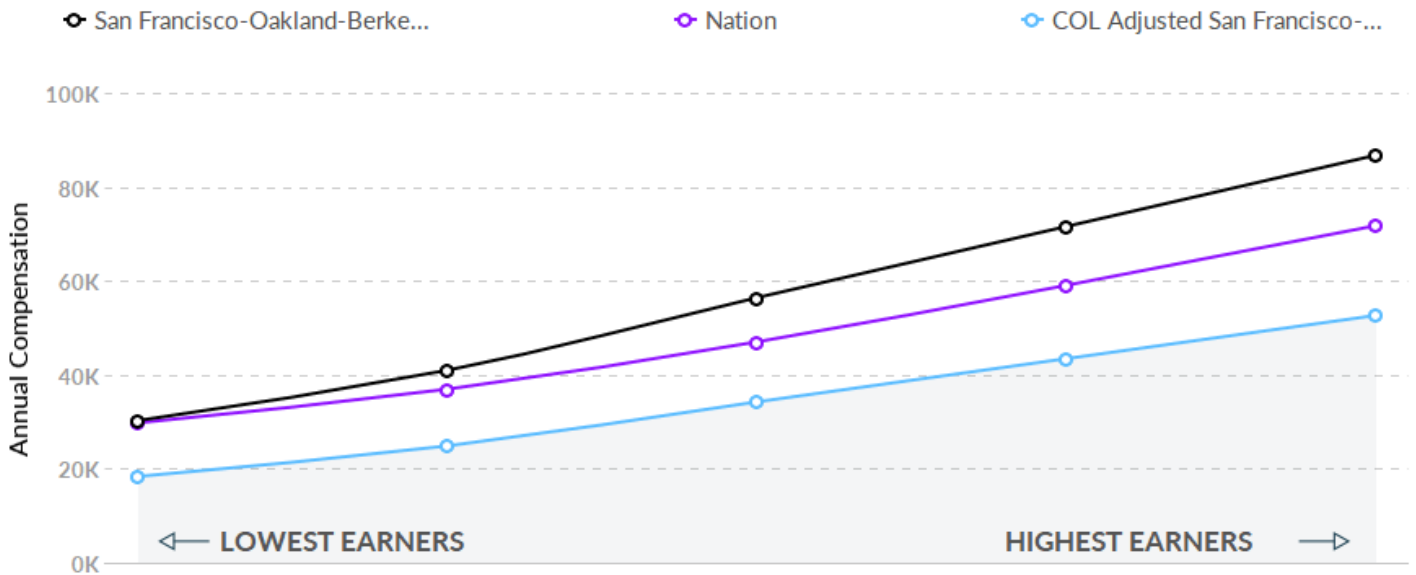


Industry	% of Occupation in Industry (2022)
General Freight Trucking	30.3%
Specialized Freight Trucking	11.0%
Grocery and Related Product Merchant Wholesalers	4.8%
Waste Collection	4.2%
Support Activities for Road Transportation	4.2%
Couriers and Express Delivery Services	4.0%
Other	41.5%

Compensation

Regional Compensation Is 20% Higher Than National Compensation

For Heavy and Tractor-Trailer Truck Drivers, the 2020 median wage in San Francisco-Oakland-Berkeley, CA is \$56,377, while the national median wage is \$46,974.



Job Posting Activity



4,606 Unique Job Postings

The number of unique postings for this job from Jan 2022 to Mar 2022.



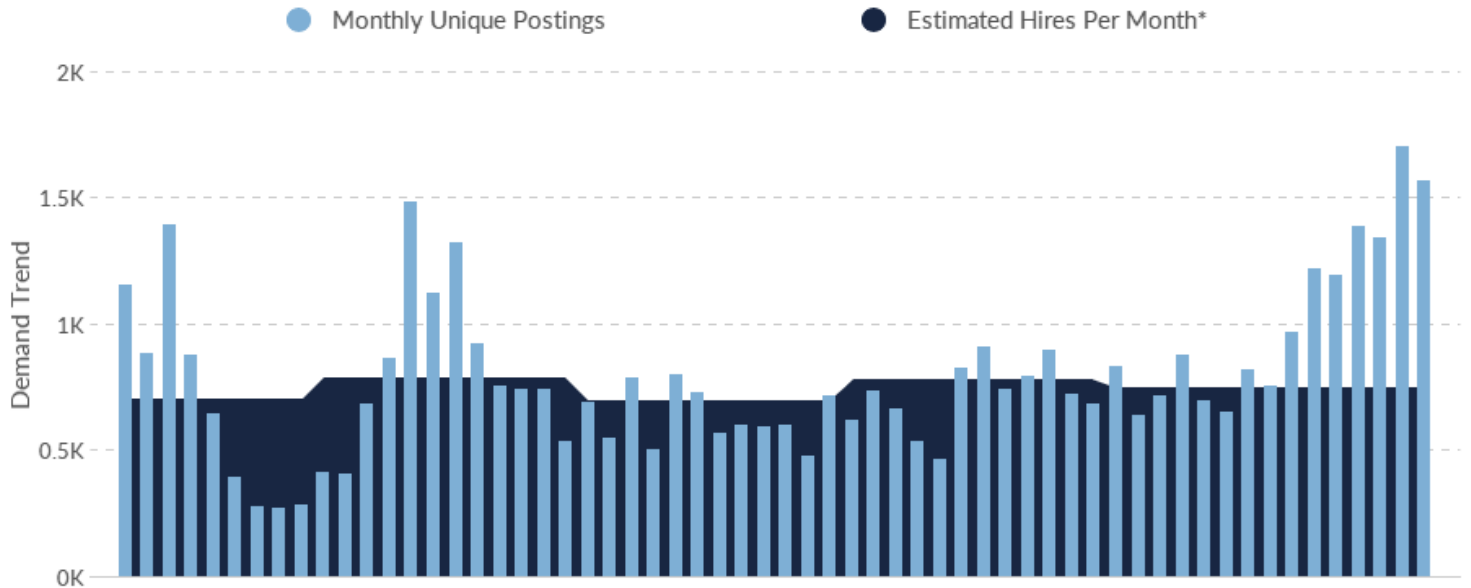
485 Employers Competing

All employers in the region who posted for this job from Jan 2022 to Mar 2022.























1 Out of 2 Positions Filled

The ratio of estimated hires* to unique postings for this job from Jan 2022 to Mar 2022.

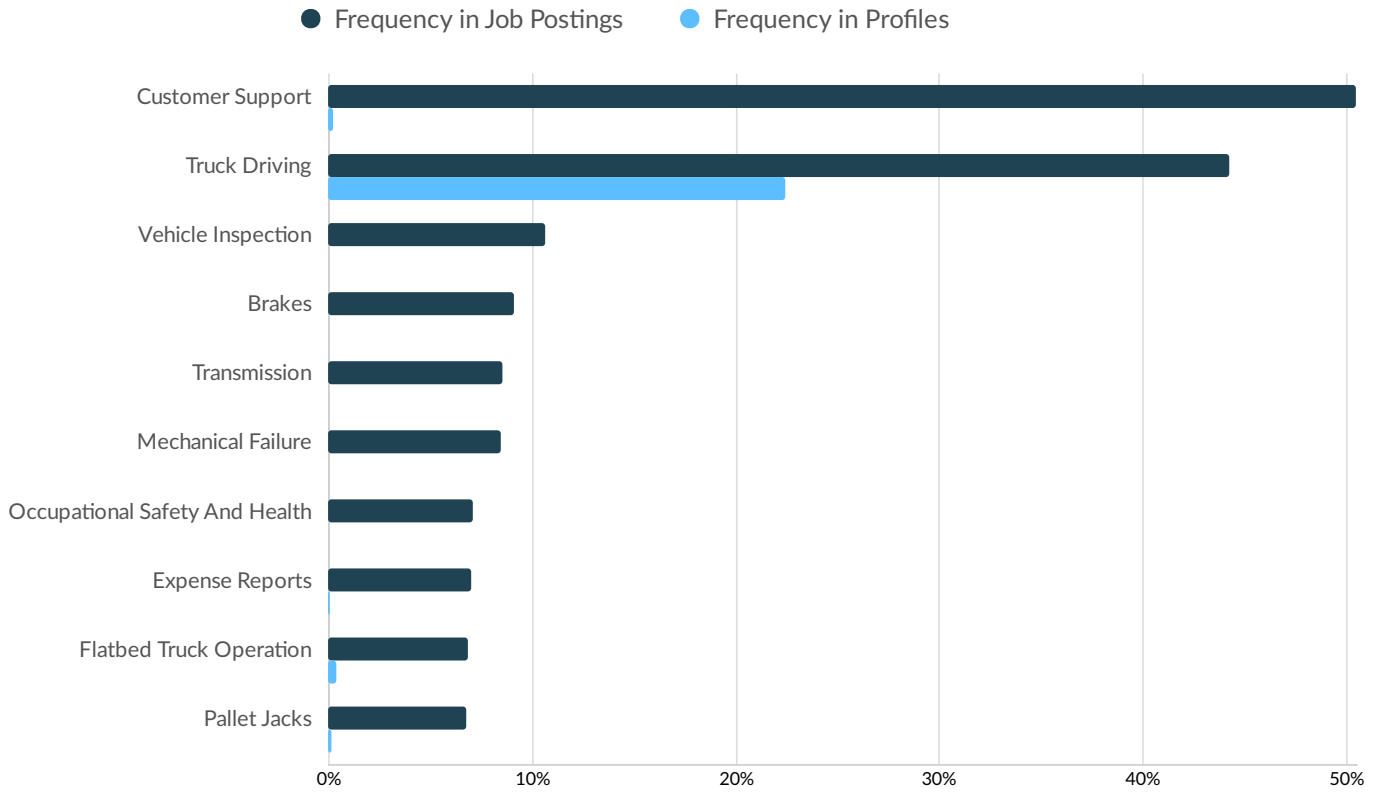


Occupation	Avg Monthly Postings (Jan 2022 - Mar 2022)	Avg Monthly Hires (Jan 2022 - Mar 2022)
Heavy and Tractor-Trailer Truck Drivers	1,535	746

*A hire is reported by the Quarterly Workforce Indicators when an individual's Social Security Number appears on a company's payroll and was not there the quarter before. Emsi hires are calculated using a combination of Emsi jobs data, information on separation rates from the Bureau of Labor Statistics (BLS), and industry-based hires data from the Census Bureau.

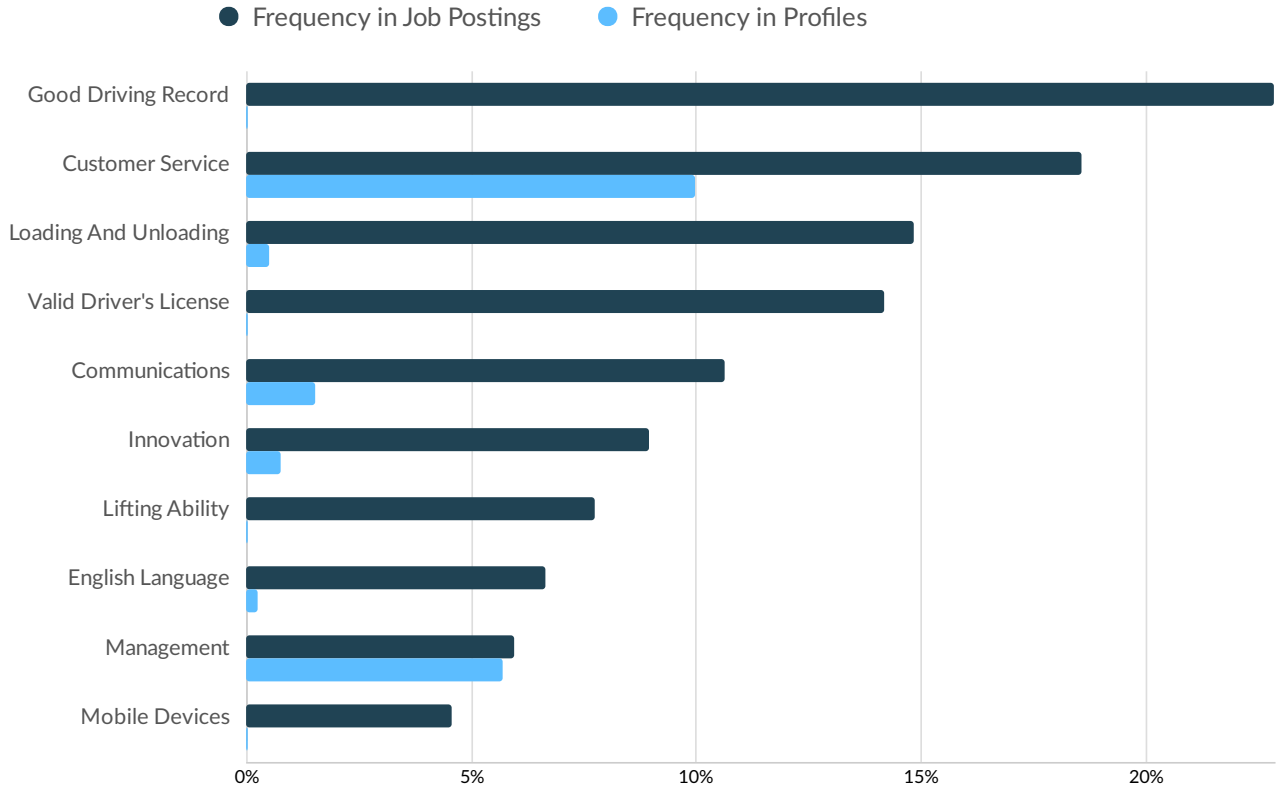
Top Companies	Unique Postings	Top Job Titles	Unique Postings
Marten Transport	541 	CDL-A Truck Drivers	1,125 
Clean Harbors	432 	Local CDL-A Truck Drivers	390 
Afp	291 	CDL-B Truck Drivers	350 
Active USA	214 	Dedicated CDL-A Truck Drivers	306 
Shaw Industries	170 	Drivers	204 
TransForce	156 	Pick-Up and Delivery Drivers	145 
Pickup International Bv	142 	Local Truck Drivers	117 
Reddaway Trucking	139 	CDL-A Flatbed Truck Drivers	98 
Carvana	133 	Regional CDL-A Truck Drivers	94 
United Road Services	101 	Company Drivers	87 

Top Specialized Skills



Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Customer Support	2,325	50%	24	0%
Truck Driving	2,037	44%	2,067	22%
Vehicle Inspection	490	11%	3	0%
Brakes	421	9%	0	0%
Transmission	393	9%	0	0%
Mechanical Failure	390	8%	0	0%
Occupational Safety And Health	328	7%	0	0%
Expense Reports	325	7%	6	0%
Flatbed Truck Operation	317	7%	36	0%
Pallet Jacks	312	7%	15	0%

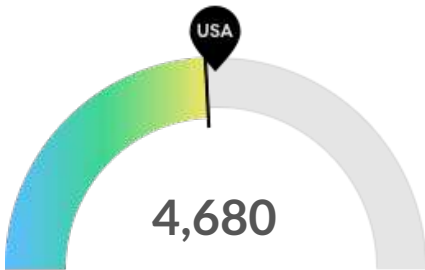
Top Common Skills



Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Good Driving Record	1,053	23%	4	0%
Customer Service	856	19%	918	10%
Loading And Unloading	684	15%	47	1%
Valid Driver's License	653	14%	3	0%
Communications	491	11%	141	2%
Innovation	413	9%	72	1%
Lifting Ability	358	8%	4	0%
English Language	307	7%	22	0%
Management	274	6%	525	6%
Mobile Devices	211	5%	4	0%

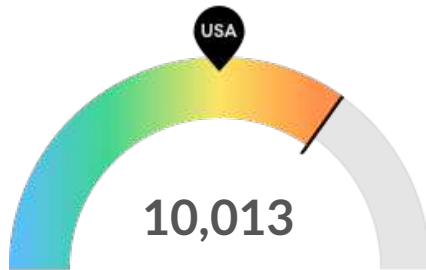
Demographics

Retirement Risk Is About Average, While Overall Diversity Is High



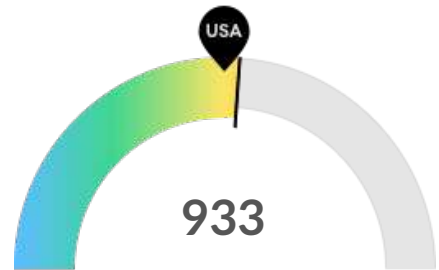
Retiring Soon

Retirement risk is about average in San Francisco-Oakland-Berkeley, CA. The national average for an area this size is 4,896* employees 55 or older, while there are 4,680 here.



Racial Diversity

Racial diversity is high in San Francisco-Oakland-Berkeley, CA. The national average for an area this size is 5,797* racially diverse employees, while there are 10,013 here.

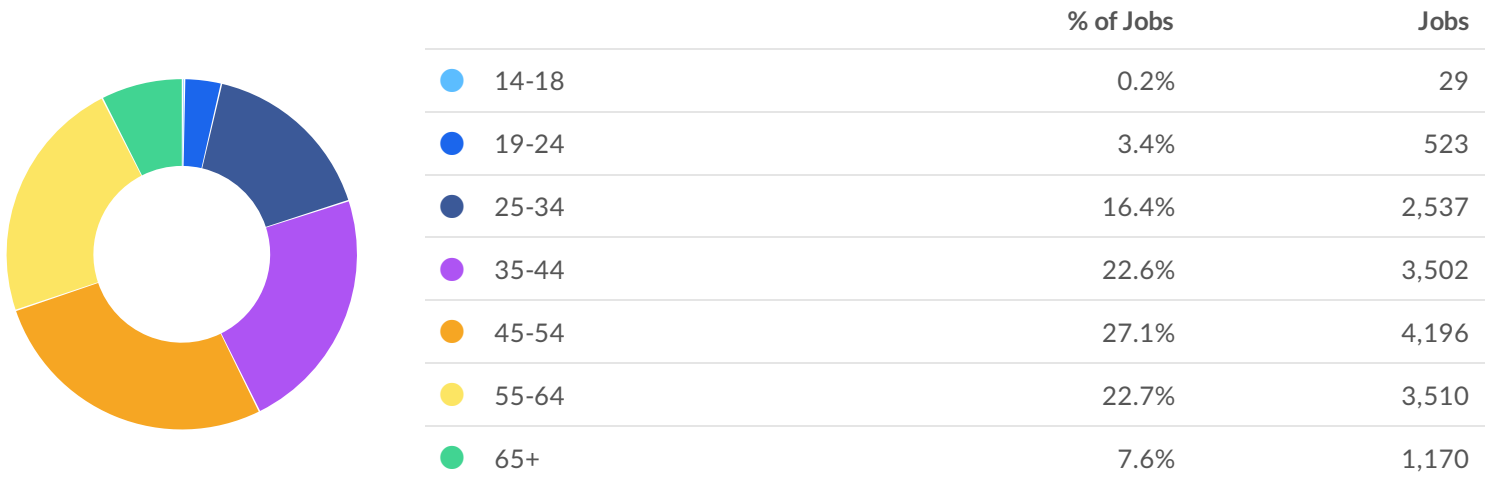


Gender Diversity

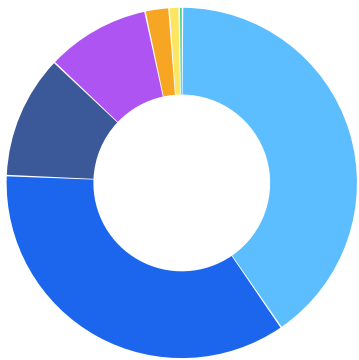
Gender diversity is about average in San Francisco-Oakland-Berkeley, CA. The national average for an area this size is 873* female employees, while there are 933 here.

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Occupation Age Breakdown

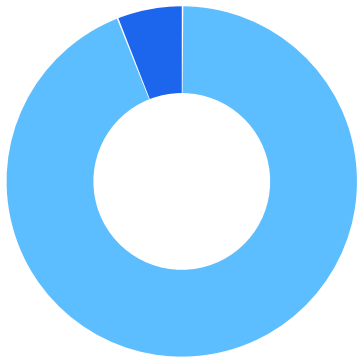


Occupation Race/Ethnicity Breakdown



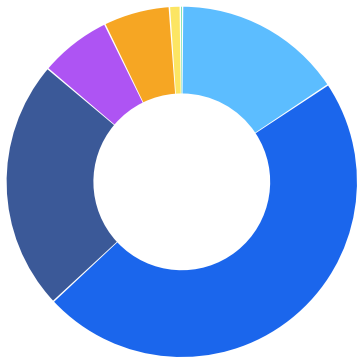
	% of Jobs	Jobs
Hispanic or Latino	40.3%	6,239
White	35.3%	5,455
Asian	11.4%	1,761
Black or African American	9.6%	1,481
Two or More Races	2.2%	341
Native Hawaiian or Other Pacific Islander	0.9%	144
American Indian or Alaska Native	0.3%	47

Occupation Gender Breakdown



	% of Jobs	Jobs
Males	94.0%	14,534
Females	6.0%	933

National Educational Attainment



	% of Jobs
● Less than high school diploma	15.6%
● High school diploma or equivalent	47.4%
● Some college, no degree	23.1%
● Associate's degree	6.6%
● Bachelor's degree	6.1%
● Master's degree	1.0%
● Doctoral or professional degree	0.2%

Occupational Programs



0 Programs

Of the programs that can train for this job, 0 have produced completions in the last 5 years.



0 Completions (2020)

The completions from all regional institutions for all degree types.



1,839 Openings (2020)

The average number of openings for an occupation in the region is 404.

Not enough data to show the Top Programs section.

Not enough data to show the Top Schools section.

Appendix A

Heavy and Tractor-Trailer Truck Drivers (SOC 53-3032):

Drive a tractor-trailer combination or a truck with a capacity of at least 26,001 pounds Gross Vehicle Weight (GVW). May be required to unload truck. Requires commercial drivers license. Includes tow truck drivers. Excludes Refuse and Recyclable Material Collectors (53-7081).

Sample of Reported Job Titles:

Semi Truck Driver
Over the Road Driver (OTR Driver)
Truck Driver
Road Driver
Mixer Driver
Log Truck Driver
Line Haul Driver
Driver
Delivery Driver
Commercial Driver's License Truck Driver (CDL Truck Driver)

Related O*NET Occupation:

Heavy and Tractor-Trailer Truck Drivers (53-3032.00)

**Course Outline for APCT 5ALB
TEAMSTERS 5 AXLE AND LOW BED DRIVER**

Effective: Fall 2023

I. CATALOG DESCRIPTION:

APCT 5ALB — TEAMSTERS 5 AXLE AND LOW BED DRIVER — 4.00 units

This competency-based course is part of the teamsters' apprenticeship program. It covers the operation, maintenance, and repair of five axles or more trucks including low bed trucks. This course includes following safety provisions & accident precautions as well as troubleshooting equipment failures when operating one of the above trucks.

4.00 Units Lecture

Enrollment Limitation

Admission to this course is limited to apprentices registered with the state of California Department of Apprenticeship Standards.

Grading Methods:

Letter or P/NP

Discipline:

- Transportation

	MIN
Lecture Hours:	72.00
Expected Outside of Class Hours:	144.00
Total Hours:	216.00

II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT: 1

III. PREREQUISITE AND/OR ADVISORY SKILLS:

IV. MEASURABLE OBJECTIVES:

Upon completion of this course, the student should be able to:

- A. Describe job site safety applications
- B. Interpret Labor history/jurisdictions
- C. Summarize collective bargaining agreements
- D. Analyze issues on operating overview/certificates requirements/compliance issues/firefighter safety training
- E. Distinguish Cal OSHA / Federal OSHA regulations and DOT requirements
- F. Summarize DOT awareness & security awareness-part 1
- G. Contrast state and federal standards on compliance with civil codes.
- H. Explain compliance issues with vehicle inspections
 - I. Discuss issues of operator responsibility for driver and others
 - J. Discuss issues of operator responsibility for driver and others
- K. Understand and explain federal & state regulations on permits
- L. Explain and demonstrate lubrication/maintenance theories

V. CONTENT:

- A. Understand job site safety applications
- B. Understand Labor history/jurisdictions
- C. Understand collective bargaining agreements
- D. Discuss issues on operating overview/certificates requirements/compliance issues/firefighter safety training
- E. Discuss overview of Cal OSHA / Federal OSHA regulations and DOT requirements
- F. Explain and demonstrate the best practices for both yard and construction site safety
- G. Explain and demonstrate the operating procedures for equipment safety
- H. Discuss compliance issues with vehicle inspections
 - I. Pass 16-hour training certification on cargo containment and lashing down cargo.
 - J. Discuss issues of operator responsibility for driver and others
- K. Discuss the Department of Transportation (DOT) reporting requirements
- L. Understand and explain federal & state regulations on permits
- M. Certified handler of off-road equipment
- N. Understand regulations set forth in 49 CFR parts 40, 380, 382, 383, 387, 390, 397 and 399.
- O. Understand regulations set forth in CFR parts 393, 383, 392, 391, 390, 397, 395 and 396.

- P. Explain and demonstrate how to use controls, levers, and gauges
- Q. Explain how Ro procedures limits machines
- R. Define unsafe acts & how to avoid them
- S. Discuss how to avoid equipment accidents associated with the transport of machinery..
- T. Explain and demonstrate lubrication/maintenance theories
- U. Explain and demonstrate defensive driving and environmental awareness.
- V. Demonstrate how to become a qualified operator of all machinery associated with off-road vehicles.
- W. Explain and demonstrate how to troubleshoot hydraulic components.
- X. Explain and demonstrate how to troubleshoot mechanical components.
- Y. Demonstrate the proper way to replace hoses, fittings, and seals.
- A@. Explain and demonstrate how to troubleshoot electrical components.
- AA. Demonstrate how to perform power take-off components and trailer breakdowns.

VI. METHODS OF INSTRUCTION:

- A. **Lecture** - Lecture on various topics

VII. TYPICAL ASSIGNMENTS:

- A. Lecture-based assignments
 - 1. Take notes on safety lecture
- B. Text reading
 - 1. Read Chapter One

VIII. EVALUATION:

Methods/Frequency

- A. Exams/Tests
 - After each module. 80% minimum.
- B. Class Participation
 - Weekly.
- C. Class Work
 - Weekly.
- D. Class Performance
 - Weekly.

IX. TYPICAL TEXTS:

1. Keller, JJ. *Tractor Trailer Driving Training Manual*. 2 ed., Cengage, 2012.
2. Blair, Alex. *Life in the Teamsters : The Civil Rights Movement*. 1 ed., Peake Dealncey Publishing, 2010.
3. Miller, William. *CDL Study Guide 2022-2023*. 1 ed., Independant, 2022.
4. Proprietary Teamsters Books and resources.

X. OTHER MATERIALS REQUIRED OF STUDENTS:

- A. Safety Glasses
- B. Safety Vests
- C. Work Gloves
- D. Flashlight
- E. Sturdy non-slip steel toe shoes

Course Outline for APCT 94

OCCUPATIONAL WORK EXPERIENCE - TEAMSTERS APPRENTICESHIP

Effective: Fall 2023

I. CATALOG DESCRIPTION:

APCT 94 — OCCUPATIONAL WORK EXPERIENCE - TEAMSTERS APPRENTICESHIP — 16.00 units

College supervised on-the-job training. Apprenticeship work experience in an occupation related to student’s apprenticeship program. Cooperative effort of the work supervisor, student, Joint Apprenticeship Training Council (JATC) or Program Sponsor, and instructor to achieve work-based learning objectives. Student must be enrolled in an apprenticeship program. Each Unit of Credit requires 75 hours of paid work experience. Students can earn 1 to 8 units per semester for a maximum of 16 units of Cooperative Work Experience, which includes General Work Experience and Occupational Work Experience/Internship.

16.00 Units Work Experience

Enrollment Limitation

Admission to this course is limited to apprentices registered with the state of California Department of Apprenticeship Standards.

Grading Methods:

Pass/No Pass

Discipline:

- Work Experience Instructors or Coordinators

	MIN	
Work Experience Hours:	1200.00	1200.00
Total Hours:	1200.00	

II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT: 1

III. PREREQUISITE AND/OR ADVISORY SKILLS:

IV. MEASURABLE OBJECTIVES:

Upon completion of this course, the student should be able to:

- A. Achieve learning objectives established with the instructor, supervisor, and student at the beginning of the school term
- B. Apply and refine skills learned in the classroom to the work site
- C. Apply educational content, level of maturity, personality, behavior, attitudes toward a job, inter-personal relationships, and identify areas for improvement
- D. Relate work experience to apprenticeship courses
- E. Identify career opportunities, job requirements, employer expectations, and promotional requirements in an occupational setting
- F. Assess personal goals and needs, making a concerted effort towards self-improvement

V. CONTENT:

- A. Instructor, student, and work site supervisor will:
 1. Determine activities related to the apprenticeship training program and the required professional trade skills
 2. Determine learning opportunities
 3. Determine experiences to broaden knowledge of the job and profession.
- B. Each learning objective will be approved by college instructor and have alignment with the approved apprenticeship program. The semester will include college/JATC:
 1. Visits to the student's work site
 2. Discussions with supervisor as to the quality/importance of each objective
 3. Identifying level of accomplishment
 4. Determining personal and professional development of student

VI. METHODS OF INSTRUCTION:

- A. Individual consultation with students
- B. Individual consultation with employer

VII. TYPICAL ASSIGNMENTS:

- A. Student journal/report
- B. Draft of objectives
- C. Final list of objectives

VIII. EVALUATION:

Methods/Frequency

- A. Class Performance
 - Semester long
- B. Other
 - 1. Instructor's appraisal of student's journal and final report
 - a. Once per semester
 - 2. Supervisor's and instructor's evaluations of completion of objectives
 - a. Minimum two per semester

IX. TYPICAL TEXTS:

- 1. No textbooks are required for this course. Instructors will provide references to or compilations of resources as needed.

X. OTHER MATERIALS REQUIRED OF STUDENTS:

- A. Access to a computer and internet connection.

Course Outline for APCT BTOS

TEAMSTERS 2&3 AXLES BOOSTER TANK OIL SPREADER TRUCK DRIVER

Effective: Fall 2023

I. CATALOG DESCRIPTION:

APCT BTOS — TEAMSTERS 2&3 AXLES BOOSTER TANK OIL SPREADER TRUCK DRIVER — 4.00 units

This competency-based course is part of the teamsters' apprenticeship program. It covers the operation, maintenance, and repair of two or three axle trucks including booster tanks and oil spreaders. This course includes following safety provisions & accident precautions as well as troubleshooting equipment failures when operating one of the above trucks.

4.00 Units Lecture

Enrollment Limitation

Admission to this course is limited to apprentices registered with the state of California Department of Apprenticeship Standards.

Grading Methods:

Letter or P/NP

Discipline:

- Transportation

	MIN
Lecture Hours:	72.00
Expected Outside of Class Hours:	144.00
Total Hours:	216.00

II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT: 1

III. PREREQUISITE AND/OR ADVISORY SKILLS:

IV. MEASURABLE OBJECTIVES:

Upon completion of this course, the student should be able to:

- A. Describe job site safety applications
- B. Interpret Labor history/jurisdictions
- C. Summarize collective bargaining agreements
- D. Analyze issues on operating overview/certificates requirements/compliance issues/firefighter safety training
- E. Distinguish Cal OSHA / Federal OSHA regulations and DOT requirements
- F. Summarize DOT awareness & security awareness-part 1
- G. Contrast state and federal standards on compliance with civil codes.
- H. Explain compliance issues with vehicle inspections
 - I. Explain how to loading of hot products from any transfer process
- J. Explain machine limitations and cleaning procedures
- K. Understand the best methods in operating an Oil Spreader Truck.
- L. Discuss issues of operator responsibility for driver and others.
- M. Discuss company-wide reporting requirements and policies.
- N. Understand and explain CalTrans policies and procedures

V. CONTENT:

- A. Understand job site safety applications
- B. Understand Labor history/jurisdictions
- C. Understand collective bargaining agreements
- D. Discuss issues on operating overview/certificates requirements/compliance issues/firefighter safety training
- E. Discuss overview of Cal OSHA / Federal OSHA regulations and DOT requirements
- F. Explain and demonstrate the best practices for construction site safety.
- G. Explain and demonstrate the operating procedures for equipment safety.
- H. Discuss compliance issues with vehicle inspections.
 - I. Understand and read nomenclature and civil grade blueprints.
- J. Discuss issues of operator responsibility for drivers and others.
- K. Discuss company-wide reporting requirements and policies.
- L. Understand and explain CalTrans policies and procedure
- M. Understand the best methods for operating an Oil Spreader Truck.

- N. Understand regulations set forth in CFR parts 380 through 398, inclusive.
- O. Explain machine limitations and cleaning procedures.
- P. Define unsafe acts & how to avoid them.
- Q. Discuss accident prevention for machines and to human life.
- R. Explain and demonstrate proper methods of lubrication, maintenance, and disposal.
- S. Explain and demonstrate awareness of surroundings in field applications.
- T. Demonstrate how to become a qualified operator of all machinery associated with off-road vehicles.
- U. Explain and demonstrate how to loading of hot products from any transfer process.
- V. Explain and demonstrate how to troubleshoot failures in liquid discharge and/or spreading.
- W. Demonstrate the proper way to off-load products to destination job sites.
- X. Explain and demonstrate how to troubleshoot equipment failures and tank ruptures.
- Y. Demonstrate how to operate trucks and trailers in adverse conditions.
- A@. Identify and explain the internal valves, fittings, heaters, and discharge systems.
- AA. Explain and demonstrate how to use controls, levers, gauges, and CNC data systems.

VI. METHODS OF INSTRUCTION:

- A. **Lecture** - Lecture on various topics

VII. TYPICAL ASSIGNMENTS:

- A. Lecture-based assignments
 - 1. Take notes on safety lecture
- B. Text reading
 - 1. Read Chapter One

VIII. EVALUATION:

Methods/Frequency

- A. Exams/Tests
 - After each module. 80% minimum.
- B. Class Participation
 - Weekly.
- C. Class Work
 - Weekly.
- D. Class Performance
 - Weekly.

IX. TYPICAL TEXTS:

1. Keller, JJ. *Tractor Trailer Driving Training Manual*. 2 ed., Cengage, 2012.
2. Blair, Alex. *Life in the Teamsters : The Civil Rights Movement*. 1 ed., Peake Dealncey Publishing, 2010.
3. Miller, William. *CDL Study Guide 2022-2023*. 1 ed., Independant, 2022.
4. Proprietary Teamsters Books and resources.

X. OTHER MATERIALS REQUIRED OF STUDENTS:

- A. Safety Glasses
- B. Safety Vests
- C. Work Gloves
- D. Flashlight
- E. Sturdy non-slip steel toe shoes

Course Outline for APCT DTWA

TEAMSTERS DUMP TRUCK DRIVER WITH ARTICULATION

Effective: Fall 2023

I. CATALOG DESCRIPTION:

APCT DTWA — TEAMSTERS DUMP TRUCK DRIVER WITH ARTICULATION — 4.00 units

This competency-based course is part of the teamsters' apprenticeship program. It covers the operation, maintenance, and repair of a dump truck with articulation, articulating water truck, water truck/pull, oil spreader truck, low bed truck, fuel & lube truck, truck mounted crane, and fixed cab boom truck. This course includes following safety provisions & accident precautions as well as troubleshooting equipment failures when operating one of the above trucks.

4.00 Units Lecture

Enrollment Limitation

Admission to this course is limited to apprentices registered with the state of California Department of Apprenticeship Standards.

Grading Methods:

Letter or P/NP

Discipline:

- Transportation

	<u>MIN</u>
Lecture Hours:	72.00
Expected Outside of Class Hours:	144.00
Total Hours:	216.00

II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT: 1

III. PREREQUISITE AND/OR ADVISORY SKILLS:

IV. MEASURABLE OBJECTIVES:

Upon completion of this course, the student should be able to:

- A. Describe job site safety applications
- B. Interpret Labor history/jurisdictions
- C. Summarize collective bargaining agreements
- D. Analyze issues on operating overview/certificates requirements/compliance issues/firefighter safety training
- E. Distinguish Cal OSHA / Federal OSHA regulations and DOT requirements
- F. Summarize DOT awareness & security awareness-part 1
- G. Contrast state and federal standards on compliance with civil codes.
- H. Identify accident prevention to machines and to human life.
 - I. Show the proper use of personal protective equipment and hazard communication
- J. Demonstrate how to troubleshoot hydraulic components.
- K. Demonstrate how to troubleshoot mechanical components.
- L. Demonstrate how to troubleshoot electrical components.
- M. Demonstrate how to perform power take-off components.
- N. Explain lubrication/maintenance theories
- O. Compare machine limitations
- P. Discuss vehicle inspections
- Q. Evaluate federal & state regulations

V. CONTENT:

- A. Understand job site safety applications
- B. Understand Labor history/jurisdictions
- C. Understand collective bargaining agreements
- D. Discuss operating overview/certificates requirements/firefighter safety training discuss an overview of Cal OSHA / Federal OSHA regulations
- E. Explain and demonstrate construction site safety
- F. Explain and demonstrate equipment safety
- G. Discuss vehicle inspections
- H. Understand nomenclature and civil grade blueprints

- I. Discuss operator respo
- J. Explain and demonstrate how to service and maintain machine components
- K. Explain and demonstrate how to use controls/levers/gauges
- L. Discuss machine limitations
- M. Define unsafe acts & how to avoid them
- N. Discuss how equipment accidents occur in field operations.
- O. Explain and demonstrate lubrication/maintenance theories
- P. Explain and demonstrate awareness of surroundings in operating conditions
- Q. Explain and demonstrate how to troubleshoot hydraulic components.
- R. Explain and demonstrate how to troubleshoot mechanical components.
- S. Demonstrate the proper way to replace hoses, fittings, and seals.
- T. Explain and demonstrate how to troubleshoot electrical components.
- U. Demonstrate how to perform power take-off components.
- V. Explain and demonstrate how to use fluid operating components.

VI. METHODS OF INSTRUCTION:

- A. **Lecture** - Lecture on various topics

VII. TYPICAL ASSIGNMENTS:

- A. Lecture-based assignments
 - 1. Take notes on safety lecture
- B. Text reading
 - 1. Read Chapter One

VIII. EVALUATION:

Methods/Frequency

- A. Exams/Tests
 - After each module. 80% minimum.
- B. Class Participation
 - Weekly.
- C. Class Work
 - Weekly.
- D. Class Performance
 - Weekly.

IX. TYPICAL TEXTS:

1. Keller, JJ. *Tractor Trailer Driving Training Manual*. 2 ed., Cengage, 2012.
2. Blair, Alex. *Life in the Teamsters : The Civil Rights Movement*. 1 ed., Peake Dealncey Publishing, 2010.
3. Miller, William. *CDL Study Guide 2022-2023*. 1 ed., Independant, 2022.
4. Proprietary Teamsters Books and resources.

X. OTHER MATERIALS REQUIRED OF STUDENTS:

- A. Safety Glasses
- B. Safety Vests
- C. Work Gloves
- D. Flashlight
- E. Sturdy non-slip steel toe shoes

Course Outline for APCT MWFL

TEAMSTERS MECHANICAL WAREHOUSEMAN/FORKLIFT

Effective: Fall 2023

I. CATALOG DESCRIPTION:

APCT MWFL — TEAMSTERS MECHANICAL WAREHOUSEMAN/FORKLIFT — 4.00 units

This competency-based course is part of the teamsters' apprenticeship program. It covers working under extreme conditions like x-rays, heat, and a flammable environment. This course also covers forklift and other lift training, loading and unloading material, and the first part of the Department of Transportation (DOT) awareness and security awareness class.

4.00 Units Lecture

Enrollment Limitation

Admission to this course is limited to apprentices registered with the state of California Department of Apprenticeship Standards.

Grading Methods:

Letter or P/NP

Discipline:

- Transportation

	MIN
Lecture Hours:	72.00
Expected Outside of Class Hours:	144.00
Total Hours:	216.00

II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT: 1

III. PREREQUISITE AND/OR ADVISORY SKILLS:

IV. MEASURABLE OBJECTIVES:

Upon completion of this course, the student should be able to:

- A. Describe job site safety applications
- B. Interpret Labor history/jurisdictions
- C. Summarize collective bargaining agreements
- D. Analyze issues on operating overview/certificates requirements/compliance issues/firefighter safety training
- E. Distinguish Cal OSHA / Federal OSHA regulations and DOT requirements
- F. Summarize DOT awareness & security awareness-part 1
- G. Contrast state and federal standards on compliance with civil codes.
- H. Identify accident prevention to machines and to human life.
 - I. Show the proper use of personal protective equipment and hazard communication
- J. Discuss Forklift and other lift training
- K. Reproduce proper methods in handling materials, walking & working surfaces.
- L. Recall how to use ergonomics in the warehouse
- M. Demonstrate how to manage time, schedules, and inventory controls.

V. CONTENT:

- A. Understand job site safety applications
- B. Understand Labor history/jurisdictions
- C. Understand collective bargaining agreements
- D. Discuss issues on operating overview/certificates requirements/compliance issues/firefighter safety training
- E. Discuss overview of Cal OSHA / Federal OSHA regulations and DOT requirements
- F. Working in extreme conditions
- G. Forklift and other lift training
- H. Loading and unloading materials
 - I. DOT awareness & security awareness-part 1
- J. Explain the application of job site safety.
- K. Discuss endorsements and hazardous training overview.
- L. Discuss OSHA's 29 CFR 1926 construction safety standards.
- M. Discuss OSHA's 29 CFR general industry standards.
- N. Discuss proper methods in handling materials, walking & working surfaces.

- O. Understand the proper use of personal protective equipment and hazard communication
- P. Orientate and practice on AEC software (Architect, Engineering, and Construction) for managing warehouse efficiency and etc.
- Q. Understand how to manage efficiently materials, warehousing, distribution, and OS and D.
- R. Identify the tools and equipment of mechanical construction.
- S. Explain and demonstrate the proper methods of managing tools and equipment of mechanical construction.
- T. Explain and demonstrate efficiently mapping layouts for positioning of materials
- U. Explain the methodology of record-keeping, IIPP, and computer literacy.
- V. Discuss accident prevention to machines and to human life.
- W. Explain and demonstrate the best operating principles in a warehouse environment.
- X. Understand and read civil and mechanical blueprints
- Y. Explain and demonstrate the best methods of shipping and receiving.
- A@. Explain state and federal standards on compliance with civil codes.
- AA. Demonstrate the proper techniques to bend, lift and squat down.
- AB. Explain how to use ergonomics in the warehouse
- AC. Explain and demonstrate how to manage time, schedules, and inventory controls.
- AD. Explain and demonstrate the best way to supervise employees of multicrafts.
- AE. Explain and demonstrate proficiency in computer literacy and OSHA 3000 log reporting

VI. METHODS OF INSTRUCTION:

- A. **Lecture** - Lecture on various topics

VII. TYPICAL ASSIGNMENTS:

- A. Lecture-based assignments
 - 1. Take notes on safety lecture
- B. Text reading
 - 1. Read Chapter One

VIII. EVALUATION:

Methods/Frequency

- A. Exams/Tests
 - After each module. 80% minimum.
- B. Class Participation
 - Weekly.
- C. Class Work
 - Weekly.
- D. Class Performance
 - Weekly.

IX. TYPICAL TEXTS:

1. Blair, Alex. *Life in the Teamsters : The Civil Rights Movement*. 1 ed., Peake Dealncey Publishing, 2010.
2. Keller, JJ. *Tractor Trailer Driving Training Manual*. 2 ed., Cengage, 2012.
3. Miller, William. *CDL Study Guide 2022-2023*. 1 ed., Independant, 2022.
4. Proprietary Teamsters Books and resources.

X. OTHER MATERIALS REQUIRED OF STUDENTS:

- A. Safety Glasses
- B. Safety Vests
- C. Work Gloves
- D. Flashlight
- E. Sturdy non-slip steel toe shoes

Course Outline for APCT OFTD
TEAMSTERS ON/OFF ROAD FUEL TRUCK DRIVER
Effective: Fall 2023

I. CATALOG DESCRIPTION:

APCT OFTD — TEAMSTERS ON/OFF ROAD FUEL TRUCK DRIVER — 4.00 units

This competency-based course is part of the teamsters' apprenticeship program. It covers the operation, maintenance, and repair of on and off-road fuel truck driving. This course includes following safety provisions & accident precautions as well as troubleshooting equipment failures when operating one of the above trucks.

4.00 Units Lecture

Enrollment Limitation

Admission to this course is limited to apprentices registered with the state of California Department of Apprenticeship Standards.

Grading Methods:

Letter or P/NP

Discipline:

- Transportation

	MIN
Lecture Hours:	72.00
Expected Outside of Class Hours:	144.00
Total Hours:	216.00

II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT: 1

III. PREREQUISITE AND/OR ADVISORY SKILLS:

IV. MEASURABLE OBJECTIVES:

Upon completion of this course, the student should be able to:

- A. Describe job site safety applications
- B. Interpret Labor history/jurisdictions
- C. Summarize collective bargaining agreements
- D. Analyze issues on operating overview/certificates requirements/compliance issues/firefighter safety training
- E. Distinguish Cal OSHA / Federal OSHA regulations and DOT requirements
- F. Summarize DOT awareness & security awareness-part 1
- G. Contrast state and federal standards on compliance with civil codes.
- H. Explain compliance issues with vehicle inspections
 - I. Explain how to loading of hot products from any transfer process
- J. Explain machine limitations and cleaning procedures
- K. Discuss issues of operator responsibility for driver and others.
- L. Discuss reporting requirements and policies.
- M. Explain Class 1, all endorsements, and DOT requirements
- N. Explain the proper techniques in loading and unloading, rail transfer, tank and bladders.
- O. Explain the principles of rupture discs, vapor recovery, and related issues.

V. CONTENT:

- A. Understand job site safety applications
- B. Understand Labor history/jurisdictions
- C. Understand collective bargaining agreements
- D. Discuss issues on operating overview/certificates requirements/compliance issues/firefighter safety training
- E. Discuss overview of Cal OSHA / Federal OSHA regulations and DOT requirements
- F. Explain proper method for construction site safety
- G. Explain equipment operating procedures, driving, and distribution.
- H. Discuss compliance with vehicle inspections
 - I. Discuss operator responsibility for the operator and for others
- J. Explain and demonstrate Class 1, all endorsements, and DOT requirements
- K. Discuss reporting requirements
- L. Explain and demonstrate the proper methods of service and maintenance of machine components.

- M. Explain the principles of rupture discs, vapor recovery, and related issues.
- N. Explain the mythology of vapor balancing, reactivity, and compatibility.
- O. Discuss accident prevention for machines and to human life.
- P. Explain and demonstrate the best methods of defensive driving techniques in all weather conditions.
- Q. Understand set forth in CFR parts 380 through 398, inclusive.
- R. Explain and demonstrate the proper techniques in loading and unloading, rail transfer, tank, and bladders.
- S. Explain equipment limitations and review accidents in field operations.
- T. Explain and demonstrate proper offloading techniques and spill containment procedures.
- U. Explain and troubleshoot failures with discharge in equipment.
- V. Explain the proper preventative maintenance programs.
- W. Understand and pass certification on government compliance with tanks
- X. Discuss the associated appurtenances of fuel truck mythology.

VI. METHODS OF INSTRUCTION:

- A. **Lecture** - Lecture on various topics

VII. TYPICAL ASSIGNMENTS:

- A. Lecture-based assignments
 - 1. Take notes on safety lecture
- B. Text reading
 - 1. Read Chapter One

VIII. EVALUATION:

Methods/Frequency

- A. Exams/Tests
 - After each module. 80% minimum.
- B. Class Participation
 - Weekly.
- C. Class Work
 - Weekly.
- D. Class Performance
 - Weekly.

IX. TYPICAL TEXTS:

1. Keller, JJ. *Tractor Trailer Driving Training Manual*. 2 ed., Cengage, 2012.
2. Blair, Alex. *Life in the Teamsters : The Civil Rights Movement*. 1 ed., Peake Dealncey Publishing, 2010.
3. Miller, William. *CDL Study Guide 2022-2023*. 1 ed., Independant, 2022.
4. Proprietary Teamsters Books and resources.

X. OTHER MATERIALS REQUIRED OF STUDENTS:

- A. Safety Glasses
- B. Safety Vests
- C. Work Gloves
- D. Flashlight
- E. Sturdy non-slip steel toe shoes

Course Outline for APCT STWP

TEAMSTERS SINGLE OR TWIN WATER PULL OPERATOR

Effective: Fall 2023

I. CATALOG DESCRIPTION:

APCT STWP — TEAMSTERS SINGLE OR TWIN WATER PULL OPERATOR — 4.00 units

This competency-based course is part of the teamsters' apprenticeship program. It covers the operation, maintenance, and repair of a single or twin water pull vehicle. This course includes following safety provisions & accident precautions as well as troubleshooting equipment failures when operating one of the above trucks.

4.00 Units Lecture

Enrollment Limitation

Admission to this course is limited to apprentices registered with the state of California Department of Apprenticeship Standards.

Grading Methods:

Letter or P/NP

Discipline:

- Transportation

	MIN
Lecture Hours:	72.00
Expected Outside of Class Hours:	144.00
Total Hours:	216.00

II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT: 1

III. PREREQUISITE AND/OR ADVISORY SKILLS:

IV. MEASURABLE OBJECTIVES:

Upon completion of this course, the student should be able to:

- A. Describe job site safety applications
- B. Interpret Labor history/jurisdictions
- C. Summarize collective bargaining agreements
- D. Contrast state and federal standards on compliance with civil codes.
- E. Explain compliance issues with vehicle inspections
- F. Explain machine limitations and cleaning procedures
- G. Discuss issues of operator responsibility for driver and others.
- H. Discuss reporting requirements and policies.
 - I. Explain awareness of surroundings in operating conditions
- J. Explain how to troubleshoot hydraulic components.
- K. Demonstrate how to troubleshoot electrical components.
- L. Explain how to service and maintain machine components

V. CONTENT:

- A. Understand job site safety applications
- B. Understand Labor history/jurisdictions
- C. Understand collective bargaining agreements
- D. Discuss issues on operating overview/certificates requirements/compliance issues/firefighter safety training
- E. Discuss overview of Cal OSHA / Federal OSHA regulations and DOT requirements
- F. Explain and demonstrate construction site safety
- G. Explain and demonstrate equipment safety
- H. Discuss vehicle inspections
 - I. Understand nomenclature and civil grade blueprints
- J. Discuss operator responsibility
- K. Discuss reporting requirements
- L. Understand federal & state regulations
- M. Understand operating principles of equipment
- N. Explain and demonstrate how to service and maintain machine components
- O. Explain and demonstrate how to use controls/levers/gauges

- P. Discuss machine limitations
- Q. Define unsafe acts & how to avoid them
- R. Discuss how equipment accidents occur in field operations.
- S. Explain and demonstrate lubrication/maintenance theories
- T. Explain and demonstrate awareness of surroundings in operating conditions
- U. Explain and demonstrate how to troubleshoot hydraulic components.
- V. Explain and demonstrate how to troubleshoot mechanical components.
- W. Demonstrate the proper way to replace hoses, fittings, and seals.
- X. Explain and demonstrate how to troubleshoot electrical components.
- Y. Demonstrate how to perform power take-off components.
- A@. Explain and demonstrate how to use fluid operating components.

VI. METHODS OF INSTRUCTION:

- A. **Lecture** - Lecture on various topics

VII. TYPICAL ASSIGNMENTS:

- A. Lecture-based assignments
 - 1. Take notes on safety lecture
- B. Text reading
 - 1. Read Chapter One

VIII. EVALUATION:

Methods/Frequency

- A. Exams/Tests
 - After each module. 80% minimum.
- B. Class Participation
 - Weekly.
- C. Class Work
 - Weekly.
- D. Class Performance
 - Weekly.

IX. TYPICAL TEXTS:

1. Keller, JJ. *Tractor Trailer Driving Training Manual*. 2 ed., Cengage, 2012.
2. Blair, Alex. *Life in the Teamsters : The Civil Rights Movement*. 1 ed., Peake Dealncey Publishing, 2010.
3. Miller, William. *CDL Study Guide 2022-2023*. 1 ed., Independant, 2022.
4. Proprietary Teamsters Books and resources.

X. OTHER MATERIALS REQUIRED OF STUDENTS:

- A. Safety Glasses
- B. Safety Vests
- C. Work Gloves
- D. Flashlight
- E. Sturdy non-slip steel toe shoes

Course Outline for APCT TEPR

TEAMSTERS CONSTRUCTION TEST PREPARATION

Effective: Fall 2023

I. CATALOG DESCRIPTION:

APCT TEPR — TEAMSTERS CONSTRUCTION TEST PREPARATION — 0.50 units

This course includes a review of safety, and federal and state regulations. Students enrolled in this class prepare themselves for required certification tests.

0.50 Units Lecture

Enrollment Limitation

Admission to this course is limited to apprentices registered with the state of California Department of Apprenticeship Standards.

Grading Methods:

Letter or P/NP

Discipline:

- Transportation

	<u>MIN</u>
Lecture Hours:	9.00
Expected Outside of Class Hours:	18.00
Total Hours:	27.00

II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT: 1

III. PREREQUISITE AND/OR ADVISORY SKILLS:

IV. MEASURABLE OBJECTIVES:

Upon completion of this course, the student should be able to:

- A. Explain how to perform a proper pre-trip, in-route and post trip inspection of a truck/tractor and trailer
- B. Explain the safe and proper way to enter and exit the cab of a commercial vehicle
- C. Describe proper hand positioning on the steering wheel, correct posture, and seatbelt use
- D. Analyze observation skills (checking for traffic or pedestrians) while operating a commercial motor vehicle
- E. Describe job site safety applications
- F. Summarize collective bargaining agreements
- G. Analyze issues on operating overview/certificates requirements/compliance issues/firefighter safety training
- H. Distinguish Cal OSHA / Federal OSHA regulations and DOT requirements

V. CONTENT:

- A. Review conducting pre-trip and post-trip inspections
- B. Review procedures for enroute vehicle inspections
- C. Explain proper techniques for performing 45/90 degree alley dock maneuvers
- D. Review proper techniques for performing off-set right and left backing maneuvers
- E. Review proper techniques for performing parallel parking blind side positions/maneuvers
- F. Recognize potential hazards encountered during driving experience sessions
- G. Understand job site safety applications
- H. Understand collective bargaining agreements
 - I. Discuss issues on operating overview/certificates requirements/compliance issues/firefighter safety training
- J. Discuss overview of Cal OSHA / Federal OSHA regulations and DOT requirements
- K. Explain and demonstrate the best practices for both yard and construction site safety
- L. Explain and demonstrate the operating procedures for equipment safety
- M. Discuss compliance issues with vehicle inspections

VI. METHODS OF INSTRUCTION:

- A. **Lecture** - Lecture on Various Topics.

VII. TYPICAL ASSIGNMENTS:

- A. Lecture-based assignments
 - 1. Take notes on safety lecture

- B. Text reading
 - 1. Read Chapter One

VIII. EVALUATION:

Methods/Frequency

- A. Exams/Tests
 - After each class module. 80% minimum
- B. Class Participation
 - Weekly
- C. Class Work
 - Weekly
- D. Class Performance
 - Weekly.

IX. TYPICAL TEXTS:

- 1. Miller, William. *CDL Study Guide 2022-2023*. 1 ed., Independant, 2022.
- 2. Proprietary Teamsters Books and resources.

X. OTHER MATERIALS REQUIRED OF STUDENTS:

- A. Computer and internet access.

Course Outline for APCT TTTD

TEAMSTERS CONSTRUCTION TRACTOR-TRAILER TRUCK DRIVER, SNOW CAT

Effective: Fall 2023

I. CATALOG DESCRIPTION:

APCT TTTD — TEAMSTERS CONSTRUCTION TRACTOR-TRAILER TRUCK DRIVER, SNOW CAT — 4.00 units

This competency-based course is part of the teamsters' apprenticeship program. It covers the operation, maintenance, and repair of construction tractor-trailer vehicles including Snow Cat. This course includes following safety provisions & accident precautions as well as troubleshooting equipment failures when operating one of the above trucks.

4.00 Units Lecture

Enrollment Limitation

Admission to this course is limited to apprentices registered with the state of California Department of Apprenticeship Standards.

Grading Methods:

Letter or P/NP

Discipline:

- Transportation

	MIN
Lecture Hours:	72.00
Expected Outside of Class Hours:	144.00
Total Hours:	216.00

II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT: 1

III. PREREQUISITE AND/OR ADVISORY SKILLS:

IV. MEASURABLE OBJECTIVES:

Upon completion of this course, the student should be able to:

- A. Describe job site safety applications
- B. Interpret Labor history/jurisdictions
- C. Summarize collective bargaining agreements
- D. Contrast state and federal standards on compliance with civil codes.
- E. Explain compliance issues with vehicle inspections
- F. Explain machine limitations and cleaning procedures
- G. Discuss issues of operator responsibility for driver and others.
- H. Discuss reporting requirements and policies.
 - I. Explain awareness of surroundings in operating conditions
- J. Explain how to service and maintain machine components
- K. Explain Grades, Braking and Parking, Shifting and aligning of Vehicles
- L. Differentiate Machine Limitations, Loading and Discharging of product, Proper procedures in the unloading of Bottom Dumps, Side Dumps, and Rear Dumps

V. CONTENT:

- A. Understand job site safety applications
- B. Understand Labor history/jurisdictions
- C. Understand collective bargaining agreements
- D. Discuss issues on operating overview/certificates requirements/compliance issues/firefighter safety training
- E. Discuss overview of Cal OSHA / Federal OSHA regulations and DOT requirements
- F. Pre Trip Inspections, Construction Site Safety, Parking, and Right of Way
- G. Equipment Safety Practices, Unstable Conditions, and Adverse Conditions
- H. Vehicle Inspections, Post Trip, Write-ups, and Vehicle Repair Confirmation
 - I. Operator Responsibility, Vehicle Safety, and Working Knowledge of Equipment Types and Characteristics
 - J. Driving Techniques, Hand Signal Communication, Haul Roads, and Specific Excavation Requirements of CFR 1926.651
- K. Civil Blueprint knowledge and Grade Stake Interpretations
- L. Service and Maintenance of Equipment and other Responsibilities
- M. Controls, Levers and Gauges, and usage of proper applications of each
- N. Machine Limitations, Loading and Discharging of product, Proper procedures in the unloading of Bottom Dumps, Side Dumps, and

- Rear Dumps.
- O. Accidents due to tipping, Awareness of Surroundings, Ground Personnel, and Driver Alertness
- P. Dust Control, Defensive Driving, Steering and Backing, and Peaking
- Q. Grades, Braking and Parking, Shifting and aligning of Vehicles
- R. Indicators and supplementary warning devices.
- S. Gauges, Service Meters, and Tachometers.
- T. Discharge Controls, Hold and Spread Techniques.
- U. Drawbars, Safety Chains, Air Applications, and Diaphragms.
- V. Engine and Transmission configurations / Diversities

VI. METHODS OF INSTRUCTION:

- A. **Lecture** - Lecture on various topics

VII. TYPICAL ASSIGNMENTS:

- A. Lecture-based assignments
 - 1. Take notes on safety lecture
- B. Text reading
 - 1. Read Chapter One

VIII. EVALUATION:

Methods/Frequency

- A. Exams/Tests
 - After each module. 80% minimum.
- B. Class Participation
 - Weekly.
- C. Class Work
 - Weekly.
- D. Class Performance
 - Weekly.

IX. TYPICAL TEXTS:

1. Keller, JJ. *Tractor Trailer Driving Training Manual*. 2 ed., Cengage, 2012.
2. Blair, Alex. *Life in the Teamsters : The Civil Rights Movement*. 1 ed., Peake Dealncey Publishing, 2010.
3. Miller, William. *CDL Study Guide 2022-2023*. 1 ed., Independant, 2022.
4. Proprietary Teamsters Books and resources.

X. OTHER MATERIALS REQUIRED OF STUDENTS:

- A. Safety Glasses
- B. Safety Vests
- C. Work Gloves
- D. Flashlight
- E. Sturdy non-slip steel toe shoes

Teamsters - APCT

Course – 5ALB

SLO's : Upon completion of this course, student will be able to

describe job site safety applications.

summarize collective bargaining agreements.

interpret Labor history/jurisdictions.

Teamsters - APCT

Course - BTOS

SLO's : Upon completion of this course, student will be able to

describe job site safety applications.

summarize collective bargaining agreements.

interpret Labor history/jurisdictions.

Teamsters - APCT

Course - DTWA

SLO's : Upon completion of this course, student will be able to

describe job site safety applications.

summarize collective bargaining agreements.

interpret Labor history/jurisdictions.

Teamsters - APCT

Course - TTTD

SLO's : Upon completion of this course, student will be able to

describe job site safety applications.

summarize collective bargaining agreements.

interpret Labor history/jurisdictions.

Teamsters - APCT

Course - OFTD

SLO's : Upon completion of this course, student will be able to

describe job site safety applications.

summarize collective bargaining agreements.

interpret Labor history/jurisdictions.

Teamsters - APCT

Course - STWP

SLO's : Upon completion of this course, student will be able to

describe job site safety applications.

summarize collective bargaining agreements.

interpret Labor history/jurisdictions.

Teamsters - APCT

Course - TTTD

SLO's : Upon completion of this course, student will be able to

describe job site safety applications.

summarize collective bargaining agreements.

interpret Labor history/jurisdictions.

Teamsters - APCT

PSLO

PSLO's : Upon completion of this program, student will be able to

Discuss overview of CAL/OSHA regulations.

Explain the operating procedures for equipment safety

Discuss compliance issues with vehicle inspections

Teamsters Construction Technology Dump Truck Driver with Articulation - A
CA - Certificate of Achievement (16 to fewer than 60 semester units)

Fall 2023

Course Sequence

Required Core		Units
APCT 94	Occupational Work Experience - Teamsters Apprenticeship	16
APCT TEPR	Teamsters Construction Test Preparation	0.5
APCT DTWA	Teamsters Dump Truck Driver with Articulation	4

Total Units

20.5

PID 1131

Teamsters Construction Technology Five Axle and Low Bed Driving - A CA -
Certificate of Achievement (16 to fewer than 60 semester units)

Fall 2023

Course Sequence

Required Core		Units
APCT 94	Occupational Work Experience - Teamsters Apprenticeship	16
APCT TEPR	Teamsters Construction Test Preparation	0.5
APCT 5ALB	Teamsters 5 Axle and Low Bed Driver	4

Total Units **20.5**

PID 1129

Teamsters Construction Technology Mechanical Warehouseman and Forklift Driver - A CA - Certificate of Achievement (16 to fewer than 60 semester units)

Fall 2023

Course Sequence

Required Core		Units
APCT 94	Occupational Work Experience - Teamsters Apprenticeship	16
APCT TEPR	Teamsters Construction Test Preparation	0.5
APCT MWFL	Teamsters Mechanical Warehouseman/Forklift	4

Total Units

20.5

PID 1132

Teamsters Construction Technology On and Off Road Fuel Truck Driver - A CA
- Certificate of Achievement (16 to fewer than 60 semester units)

Fall 2023

Course Sequence

Required Core		Units
APCT 94	Occupational Work Experience - Teamsters Apprenticeship	16
APCT TEPR	Teamsters Construction Test Preparation	0.5
APCT OFTD	Teamsters On/Off Road Fuel Truck Driver	4

Total Units **20.5**

PID 1133

Teamsters Construction Technology Single or Twin Water Pull Operator - A CA
- Certificate of Achievement (16 to fewer than 60 semester units)

Fall 2023

Course Sequence

Required Core		Units
APCT 94	Occupational Work Experience - Teamsters Apprenticeship	16
APCT TEPR	Teamsters Construction Test Preparation	0.5
APCT STWP	Teamsters Single or Twin Water Pull Operator	4

Total Units **20.5**

PID 1134

Teamsters Construction Technology Tractor-Trailer Truck Driver - A CA -
Certificate of Achievement (16 to fewer than 60 semester units)

Fall 2023

Course Sequence

Required Core		Units
APCT 94	Occupational Work Experience - Teamsters Apprenticeship	16
APCT TEPR	Teamsters Construction Test Preparation	0.5
APCT TTTD	Teamsters Construction Tractor-Trailer Truck Driver, Snow Cat	4

Total Units

20.5

PID 1135

Teamsters Construction Technology Two and Three Axles Booster Truck Tank
Oil Spreader - A CA - Certificate of Achievement (16 to fewer than 60 semester
units)
Fall 2023

Course Sequence

Required Core		Units
APCT 94	Occupational Work Experience - Teamsters Apprenticeship	16
APCT TEPR	Teamsters Construction Test Preparation	0.5
APCT BTOS	Teamsters 2&3 Axles Booster Tank Oil Spreader Truck Driver	4
Total Units		20.5

PID 1130