Mosquito and Vector Control Association of California

Training & Certification

2026 Charges

1. **2026 Charge: Develop a vector control-oriented presentation to be provided to PAPA (Pesticide Applicators Professional Association) directed events.**
   a. Action steps: Develop presentations, schedule with PAPA organizers opportunities to present, provide presentations at directed events.
   b. Resources needed: Speakers for PAPA events that will be contacted by T&C committee members.
   c. Potential Challenges: Scheduling conflicts with PAPA events, speaker availability.
   d. Timeline: December 2026
   e. Status: Ongoing

2. **2026 Charge: In cooperation with the IVM committee, review and record *Aedes*-based training events to submit for CEU qualification.**
   a. Action steps: Communicate and manage recording needs with the IVM committee based on *Aedes* training sessions held.
   b. Resources needed: *Aedes* training session management.
   c. Potential Challenges: Time conflicts and content qualifications
   d. Timeline: December 2026
   e. Status: Ongoing

3. **2025 Charge: Develop and distribute an independent agency VCTE review questionnaire. Based on results, publish to website best practices sheet for independent agencies review.**
   a. Action steps: Perform final analysis based on participation results.
   b. Resources needed: N/A
   c. Potential Challenges: N/A
   d. Timeline: April 2026
   e. Status: Ongoing

4. **Standing Charge: Produce original content and secure approval of existing content to provide sufficient number of webinars, supplementing live sessions, to complete CEU training requirements.**
   a. Action steps: Continue posting approved and recorded webinars to statewide website for 2025-27 cycle. If needed produce additional content for categories that may be lacking sufficient materials.
   b. Resources needed: Volunteer webinar speakers as needed.
   c. Potential Challenges: Scheduling conflicts and timing with traditional mosquito season to produce and approve potential webinars.
   d. Timeline: June 2027
   e. Status: Ongoing

5. **Standing Charge: In conjunction with CDPH, evaluate current CEU guidelines and identify potential changes to increase regional training efficiencies.**

a. Action steps: Evaluate current CEU guidelines and communicate any changes/updates to association as needed. Ensure appropriate recorded sessions are available to association well before cycle completion.
b. Resources needed: None at this time.
c. Potential Challenges: Enough archived webinars in each category to meet cycle requirements: A=12, B=8, C=8 and D=8.
d. Timeline: June 2027
e. Status: Ongoing

6. **Standing Charge: Coordinate the Association's program of regional continuing education and statewide webinar development, maintaining expected training standards.**
   a. Action steps: Work with regional representatives to produce and execute in person training sessions that satisfy state requirements for biennial training.
   b. Resources needed: None at this time.
   c. Potential Challenges: None currently.
   d. Timeline: Ongoing
   e. Status: Ongoing

7. **Standing Charge: Review submitted training curricula and recommend approval to CDPH representative.**
   a. Action steps: Will be completed on a Regional basis.
   b. Resources needed: None at this time.
   c. Potential Challenges: None at this time.
   d. Timeline: Ongoing
   e. Status: Ongoing

Committee members:

Member	District	Position	Year Joined Committee	Email
Tristan Hallum (Committee Chair)	**San Gabriel Valley MVCD**	Director of Scientific Programs	2023	thallum@sgvmosquito.org
Amanda Bradford	**Butte County MVCD**	Entomologist	2020	abradford@buttemosquito.com
Nour Nesheiwat	**Kern MVCD**	Entomologist	2023	nour@kernmosquito.com
Monica Patterson	**Turlock MAD**	Vector Biologist	2023	mpatterson@turlockmosquito.com
Michael Niemela	**CDPH**	Biologist	2012	Michael.niemela@cdph.ca.gov

Miguel Cardenas	**Solano County MAD**	District Manager	2025	miguelcardena@solanomosquito.com
Miquel Jacobs	**Orange County MVCD**	Director of Communications	2024	mjacobs@ocvector.org
Jody L. Morgan	**Pine Grove MAD**	District Manager	2025	pinegrovemad1@gmail.com

Mosquito and Vector Control Association of California

Training & Certification Committee

Information reflects CEU totals as of: January 5th, 2026

Archived continuing education units (CEU's) on the MVCAC website amount to the following totals per category:

A – 1 unit of the required 10
B – 1 unit of the required 6
C – 0 units of the required 7
D – 4 units the required 7
Total – 6 unit of the required 30

Live CEU sessions are currently being scheduled. Each region's live sessions are planned for:
- Sacramento Valley – Completed
- Coastal – Completed
- North San Joaquin – October 15th, 2026
- South San Joaquin – Completed
- Southern – March 11th, 2026

The current cycle ends on June 30th, 2027.

A survey of all independent California agencies has circulated among member agencies. The "amount of study time provided by agencies" was analyzed by CDPH and is provided below. Further analysis regarding employee retention, exams required, and agency size is underway by the T&C committee which will be

provided in the next board report.

Study Time Granted for Vector Control Technician Exam

Analysis and summary prepared by Andrea Lund, Ph.D., Vector-Borne Disease Section, CDPH | December 8, 2025

Background. Data from 21 exam sessions (up to four exam categories/session) proctored over eleven years (May 2015 through May 2025) were analyzed alongside survey data collected from 33 agencies. A total of 883 technicians from these 33 agencies participated in exam sessions. Each exam category was attempted a variable number of times: 944 times for Category A, 960 times for Category B, 699 times for Category C, and 590 times for Category D.

Objective. This analysis aimed to determine whether technicians were more likely to pass the Vector Control Technician exam if their agency offered paid time to prepare to study.

Study time. All 33 agencies that responded to the survey reported offering paid study time to their staff. Responses to a subsequent survey question regarding how many hours staff were allowed to prepare varied. Two binary variables regarding study time were calculated from responses to this question: (1) whether an agency reported the number of study hours provided and (2) whether an agency reported providing study time as needed.

Pass rates. Technicians passed the exam if they achieved a score of 35 or greater for any of the attempts in an exam category. Pass rates at the agency level were calculated for each category by dividing the number of passing scores achieved divided by the number of exam attempts by technicians at that agency and multiplying by 100.

Comparing pass rates by study time: Because all responding agencies reported providing paid study time, it was not possible to evaluate whether providing any paid study time improved exam pass rates. There were no significant differences in exam pass rates with how agencies reported providing study time to their staff. This relationship was assessed at both the agency and individual technician level.

Table 1. Median (IQR) percent of exam attempts passed (summarized at agency level) by exam category and study time reported in survey

Study time	Agencies	Category A	Category B	Category C	Category D
Hours reported	12	72.7 (13.8)	70.8 (16.5)	58.1 (17.6)	76.2 (18.9)
As needed	18	73.9 (45.6)	60.2 (45.5)	66.7 (26.2)	75.0 (27.9)
Undetermined	3	78.0 (16.7)	66.7 (0.31)	71.4 (11.5)	85.7 (11.0)
Overall	33	74.0 (25.6)	66.0 (32.7)	62.3 (24.4)	79.2 (18.2)

The median pass rates (calculated as percent of attempts passed) did not differ between agencies that reported a number of hours their staff were allowed to study and those who do not, nor between agencies that allowed their staff to study as needed and those who do not (Table 1; Wilcoxon signed rank test, $p > 0.2$ across all exam categories). Logistic regression accounting for repeated measures at the individual technician level also found no differences in exam passage by how agencies provided study time to their staff ($p > 0.6$ across all exam categories).