

# **AGRICULTURAL PEST CONTROL ADVISER LICENSE PACKET**

Contains the following documents:

- Licensing Requirements
- Application & Instructions
- Core course and/or Work Experience Requirements Form
- Minimum Education Requirement
- Study Material Source List
- Visa/Mastercard Transaction Form
- Customer Service Survey Form

## AGRICULTURAL PEST CONTROL ADVISER LICENSING REQUIREMENTS

**Do you need this license?** An **Agricultural Pest Control Adviser (PCA)** is any person who offers a recommendation on any agricultural use, holds himself/herself as an authority on any agricultural use, or solicits services or sales for any agricultural use (Food and Agricultural Code sections 11410, 11411).

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**Licensing Exemption** You are exempt from this licensing requirement if you make any recommendation of a specific application on a specific parcel in writing, **and** are a(n):

- Official of a federal, state, or county Department of Agriculture;
- University of California personnel worker engaged in official duties relating to agricultural use;
- “Operator of the property” (i.e. growers, farms, or corporations) and their employees when making decisions in regards to pesticides used for agricultural use on property under their control. Agency public employees are required to be licensed as PCAs when making decisions, except those that are exempted (FAC section 12001).

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**Minimum qualifications** You must meet the minimum educational and technical experience requirements to take the *Agricultural Pest Control Adviser* examinations. See the Minimum Education Qualifications for Agricultural Pest Control Advisers (rev. 06/08) in this packet to determine minimum qualifications for this license.

A sample of college courses that meet the core requirements will be listed on our website at <http://www.cdpr.ca.gov/docs/license/adviser.htm>.

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**Basic licensing requirements** You may obtain a PCA license by submitting the following:

- Application,
- Application fees,
- Official transcripts,
- Agricultural Pest Control Adviser Core Course and/or Work Experience Requirements for New License Applicants (PR-PML-085),
- Pass the required examinations.

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**Examinations** You must pass the Laws, Regulations, and Basic Principles examination (including Integrated Pest Management) and at least one pest control category examination with a score of 70 percent or higher (FAC section 12022). The pest control categories for this license are as follows:

- |   |   |   |                         |
|---|---|---|-------------------------|
| A | Insects, Mites, and Other Invertebrates | E | Weed Control            |
| B | Plant Pathogens                         | F | Defoliation             |
| C | Nematodes                               | G | Plant Growth Regulators |
| D | Vertebrate Pests                        |   |                         |
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**Exam Schedules**

Annual DPR Exam Schedules are revised in December and posted on the website at [www.cdpr.ca.gov/docs/license/liccert.htm](http://www.cdpr.ca.gov/docs/license/liccert.htm). Your application must be postmarked by the final filing date listed in the examination schedule in order for your requested month, location, and type of examination(s) to be processed.

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**Preparing for examinations**

To prepare for the examination, it is suggested that you read the appropriate study materials listed on the Suggested Study Material Source List included in this packet. Many of the study materials have practice test questions at the end of each chapter that can help you evaluate whether you know the material well enough to pass the exam. For some categories, DPR has posted Knowledge Expectations on their website that outline the type of information you will be expected to know when you take the examination.

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**Application fee**

The application fee is \$80 for this license (FAC section 12021 and 3 CCR section 6502). This fee is only required once, provided you become licensed within one year.

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**Examination fees**

The examination fee is \$50 (3 CCR section 6505) for each examination taken (including reexaminations due to rescheduling or failure to pass). However, if you do not show for your examination(s) and do not reschedule you must again submit the exam fees.

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**Second-year fee notice**

When you pass the required examinations, you might receive a Second-Year Fee Notice. This notice will inform you that you have paid for the first year of a 2-year cycle, and that in order to issue your license an additional \$70 is required for the second-year fee. The 2-year cycles are illustrated in the table below.

<b>If your last name begins with...</b>	<b>Then your license will...</b>
<b>A through L</b>	Expire on December 31 of even-numbered years (e.g. 2010, 2012, 2014, etc.)
<b>M through Z</b>	Expire on December 31 of odd numbered years (e.g. 2011, 2013, 2015, etc.)

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**Valid licenses**

A list of valid licenses may be viewed at [www.cdpr.ca.gov/docs/license/currlic.htm](http://www.cdpr.ca.gov/docs/license/currlic.htm).

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**License duration**

A new license may be valid for up to two years, depending on when you first became licensed.

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**General requirements**

Once you obtain your license, you must do all of the following:

- Register with the County Agricultural Commissioner in your “home” county and in each county where you make recommendations (FAC section 12031).
- Retain one copy of each written recommendation for one year (FAC section 12004).
- Provide the operator of the property with a copy of the written recommendation prior to the application (FAC section 12003).
- Provide the pesticide dealer and the applicator with a copy of the written recommendation – prior to application – where a pesticide use is recommended (FAC section 12003).

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**Continuing Education**

Once you pass the examination(s) and receive your license, you must accumulate a determined amount of approved continuing education (CE) hours. DPR will inform you of the number of approved CE hours you are required to complete. After your first renewal, you are required to accumulate at least 40 hours of approved continuing education (CE) every two years before license renewal<sup>1</sup>. Four of the 40 hours must cover the topic of pesticide laws and regulations (3 CCR sections 6511).

Our office will send you a renewal notice, which will remind you of the required number and topic areas of CE hours. For more information, you can find the following on our website:

- CE requirements [www.cdpr.ca.gov/docs/license/conted.htm](http://www.cdpr.ca.gov/docs/license/conted.htm)
- DPR-approved CE courses [www.cdpr.ca.gov/docs/license/classes.htm](http://www.cdpr.ca.gov/docs/license/classes.htm)

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**Renewal fee**

The renewal fee is \$140 for the 2-year cycle (3 CCR section 6502). We do not prorate your fee if you renew your license late. Instead, a late fee is applied.

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**Late renewal fee**

A late fee of 50 percent of the total renewal fee will be charged for each license or certificate postmarked after December 31 of the expiration year.

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<sup>1</sup> Some new license holders may require fewer CE hours for their first renewal depending on when the license was issued. The number of required CE hours will be specified on your transmittal card when you receive your new license.

**Miscellaneous fees**

The following chart lists possible miscellaneous fees.

Type	Amount	Details
Name change	\$20	<ul style="list-style-type: none"> <li>You must immediately notify the Licensing and Certification Office <b>in writing</b> (3 CCR section 6508).</li> <li>You must submit legal documents certifying the name change.</li> <li>A new license will be automatically issued for all name changes.</li> <li>The <i>Address Change/Name Change/Replacement Card Form</i> is available on our website at <a href="http://www.cdpr.ca.gov/docs/license/lcforms.htm">www.cdpr.ca.gov/docs/license/lcforms.htm</a></li> </ul>
Address change	\$20	<ul style="list-style-type: none"> <li>You must immediately notify the Licensing and Certification Office <b>in writing</b> (3 CCR section 6508).</li> <li>This fee is only required if you request a new license.</li> <li>The <i>Address Change/Name Change/Replacement Card Form</i> is available on our website at <a href="http://www.cdpr.ca.gov/docs/license/lcforms.htm">www.cdpr.ca.gov/docs/license/lcforms.htm</a></li> </ul>
Duplicate	\$20	<ul style="list-style-type: none"> <li>This fee applies to requests for a duplicate or replacement license.</li> <li>The <i>Address Change/Name Change/Replacement Card Form</i> is available on our website at <a href="http://www.cdpr.ca.gov/docs/license/lcforms.htm">www.cdpr.ca.gov/docs/license/lcforms.htm</a></li> </ul>

Name and/or address change fees are waived when a license is reprinted to add a pest control category or to renew.

**Timelines for processing applications**

DPR may take up to 100 days to complete the processing of your application, in compliance with Government Code sections 15374-15378. Failure to comply with this time period may be appealed to the Agency Secretary, California Environmental Protection Agency, P.O. Box 2815, Sacramento, California, 95814, pursuant to regulations set forth in 3 CCR section 301. Under certain circumstances, the Agency Secretary may order that the applicant receive a reimbursement of filing fees.

**Common mistakes**

The most common application errors are

- Incorrect fees
- Missing the final filing date
- Not specifying your preferred month, location, and type of examination(s)

You can avoid these errors by reading the application instructions carefully and by mailing your application **before** the final filing date.

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**Our physical  
address**

Department of Pesticide Regulation Pest  
Management and Licensing Branch  
Licensing and Certification Program  
1001 I Street  
Sacramento, CA 95814-2828

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**Our mailing  
address**

Department of Pesticide Regulation Pest  
Management and Licensing Branch  
Licensing and Certification Program  
P.O. Box 4015  
Sacramento, CA 95812-4015

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**For more  
information**

You may contact us between the hours of 8 a.m. to 5 p.m. at (916) 445-4038, or  
e-mail us at [licenseemail@cdpr.ca.gov](mailto:licenseemail@cdpr.ca.gov)

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AGRICULTURAL PEST CONTROL ADVISER LICENSE APPLICATION

The mailing address you indicate on this application is your address of record for your license/certificate. Therefore it is public information. You may wish to use a post office box in lieu of the physical address as an address of record.

PLEASE READ INSTRUCTIONS ON PAGE 2.

A. Application Type. Check the appropriate box(es).

- NEW APPLICATION - FIRST TIME APPLICATION
All new applicants must meet the minimum education requirements.
REEEXAMINATION - FAIL OR NO SHOW ON PREVIOUS EXAMS
ADDING PEST CONTROL CATEGORY(IES)
OTHER - Specify

B. Applicant Information. Please print or type.

Form with fields for NAME (Last, First, Middle Initial), ADVISER NUMBER/EXAM ID NUMBER, HOME TELEPHONE NUMBER, MAILING ADDRESS (Number and Street, City, County, State, ZIP Code), WORK TELEPHONE NUMBER, CELL TELEPHONE NUMBER, EMPLOYER NAME AND MAILING ADDRESS (If Applicable), EMAIL ADDRESS.

C. Laws, Regulations and Basic Principles Examination (Includes Integrated Pest Management Principles). No Exemption. See instructions on reverse.

D. Examinations. Indicate the examination(s) you want to take by checking the appropriate boxes. All new applicants must take the Laws, Regulations and Basic Principles examination. See instructions on reverse.

- (R) Laws, Regulations and Basic Principles Examination \$50 REQUIRED FOR ALL NEW APPLICANTS
(A) Insects, Mites, and Other Invertebrates \$50
(B) Plant Pathogens \$50
(C) Nematodes \$50
(D) Vertebrate Pests \$50
(E) Weed Control \$50
(F) Defoliation \$50
(G) Plant Growth Regulators \$50

E. Examination Schedule. To complete this section, see Examination Schedule for the month and location. DPR will assign the exam date.

Form with fields for EXAMINATION MONTH and EXAMINATION SITE LOCATION.

F. Reasonable Accommodation.

Check if you need reasonable accommodation to take a written exam.

G. Fees. All fees are non-transferable and non-refundable.

Table with columns: Amount, # of Exams, Total Amount. Rows include New Applicant Fee, Examination Fee, and Total Fees Due/Enclosed.

H. Read Before Signing. During the last three years have you had any administrative, civil, or criminal action taken against you for violation of any State or federal laws or regulations relating to the application or use of pesticides that resulted in disciplinary or in which any disciplinary action is pending?

- YES (State explanation below.)
NO

I. I declare under penalty of perjury, under laws of the State of California, that the above information is true and correct.

Form with fields for APPLICANT SIGNATURE and DATE SIGNED.

Form with fields for FOR OFFICIAL USE ONLY, PROBLEM, and COMPUTER ENTRY DATE.



# AGRICULTURAL PEST CONTROL ADVISER LICENSE APPLICATION INSTRUCTIONS

**A. Application Type.**

- **New Application:** If you:
  - ✓ Are applying for an Agricultural Pest Control Adviser (PCA) license for the first time.
  - ✓ Failed to obtain your license within 12 months from the first date you scheduled your examination.
  - ✓ Failed to meet the renewal requirements by the expiration of your license.

*Minimum education requirements must be met. You must submit a copy of your official college/university transcripts, along with the completed Core Course Requirements form.*

- **Add Pest Control Category(ies):** Requesting to take pest control category examinations not yet taken. If passed, the category(ies) will be added to your existing license.
- **Reexamination:** Scheduling an examination on which you failed to obtain a passing score or failed to appear for a previously-scheduled examination.
- **Other:** Any other change, please specify the change.

**B. Applicant Information:** Enter your name, Adviser License or Exam Identification Number if applicable, address, email address, home, work, and cell telephone numbers, and current employer (if applicable).

**C. Laws, Regulations and Basic Principles Examination (includes Integrated Pest Management Principles).** *This examination is required of all new PCA applicants.* The passage of the Laws, Regulations and Basic Principles examination in any other DPR licensing program does not exempt you from this exam.

**D. Examinations.** Indicate the examinations you want to take by checking the appropriate boxes. In addition to the Laws, Regulations and Basic Principles examination, each new applicant must successfully pass at least one of the pest control categories (A-G) before an Agricultural Pest Control Adviser License is issued. A maximum of four (4) examinations may be scheduled per location (testing may occur at only one location per month). If you are requesting the Laws, Regulations, and Basic Principles examination, a maximum of three (3) examinations may be scheduled per location.

**E. Examination Schedule.** Indicate the examination month and location in the appropriate boxes. This information may be obtained from the Examination Schedule provided with the General Information Packet or from DPR's web site at <[www.cdpr.ca.gov](http://www.cdpr.ca.gov)>. The Examination Schedule gives the location, schedule, and final filing dates. Your application must be *postmarked* by the final filing date for that location. DPR will assign your exam date.

**F. Reasonable Accommodation.** Reasonable Accommodation will be provided to applicants who need assistance to take a written exam. If you check "Yes", you will be contacted via telephone or mail to make specific testing arrangements.

**G. Fees. All fees are non-transferable and non-refundable.**

New Applicant Fee: \$80

Examination Fee: \$50

A new applicant fee is only required if you meet the criteria for a "New Application" as stated above in Section A, Application Type.

An examination fee of \$50 is required for each examination (including Laws, Regulations and Basic Principles) you are requesting to schedule.

**H. Read Before Signing.** Check appropriate box.

**I. Declaration/Signature Block.** Sign and date your application. Enclose a check, money order or credit card payable to "Cashier, DPR" and mail to: Cashier, Department of Pesticide Regulation, P.O. Box 4015, Sacramento, California 95812-4015.

**Failure to complete or provide the requested information may delay the processing of your application.**

**AGRICULTURAL PEST CONTROL ADVISER  
CORE COURSE AND/OR WORK EXPERIENCE REQUIREMENTS  
FOR NEW LICENSE APPLICANTS**

PR-PML-085 (REV. 11/07)

This form must be completed and submitted with your application and official transcripts. To assist in determining which courses fit in the proper core areas, refer to DPR's web site at <<http://www.cdpr.ca.gov/docs/license/pcacoursreq.htm>>. For any course that does not clearly fit in a core area designated below, please submit an official college/university catalog class description, a signed official document from the college/university explaining what you accomplished in the class, or a copy of the paper that was submitted. Nontraditional course titles (e.g., Senior Project, Internship, Cooperative Work Experience, Independent Study, Dissertation, Thesis, Enterprise Project) and work experience require documentation (see Title 3 of the California Code of Regulations, Code section 6550). Without these official documents, DPR cannot evaluate whether you meet the core course and/or work experience requirements.

**PHYSICAL AND BIOLOGICAL SCIENCES** (minimum of 12 semester or 18 quarter units) includes courses such as introduction to inorganic chemistry, organic chemistry, biochemistry, plant biology or botany, general ecology, biology, genetics, plant physiology, and zoology.

Course Code / No.	Course Title	Course Grade	Quarter Units	Semester Units
Total Units				

**CROP HEALTH** (minimum of 9 semester or 13.5 quarter units) includes introductory courses such as vegetative management or weeds, plant pathology, agricultural/economic entomology, plant nutrition or fertility, nematology, and vertebrate management; and courses in soils and irrigation. The director may grant 3 semester or 4.5 quarter units credit for a current crop adviser certificate accredited by the American Society of Agronomy. Additional credit may also be given for nontraditional courses.\*

Course Code / No.	Course Title	Course Grade	Quarter Units	Semester Units
Total Units				

**PEST MANAGEMENT SYSTEMS AND METHODS** (minimum of 6 semester or 9 quarter units) includes at least one course emphasizing Integrated Pest Management principles; applied courses in entomology, plant pathology, vegetation management or weed science, and other pest management disciplines; and courses related to biological control, pesticides, pest control equipment systems, the use of pesticides, alternative cropping systems, and sustainable or organic agricultural systems. The director may grant 3 semester or 4.5 quarter units credit for one year of full-time related work experience. Please refer to the TECHNICAL EXPERIENCE table. Additional credit may also be given for nontraditional courses\*

Course Code / No.	Course Title	Course Grade	Quarter Units	Semester Units
Total Units				

**PRODUCTION SYSTEMS** (minimum of 6 semester or 9 quarter units) includes courses such as horticulture; viticulture; forestry; agronomy; crop, vegetable, fruit, or animal sciences; or other production systems. The director may grant 3 semester or 4.5 quarter units credit for one year of full-time related work experience. Please refer to the TECHNICAL EXPERIENCE table. Additional credit may also be given for nontraditional courses.\*

Course Code / No.	Course Title	Course Grade	Quarter Units	Semester Units
Total Units				

**ELECTIVES** (minimum of 9 semester or 13.5 quarter units) include courses listed in Crop Health, Pest Management Systems and Methods, and Production Systems.

Course Code / No.	Course Title	Course Grade	Quarter Units	Semester Units
Total Units				

**TECHNICAL EXPERIENCE** (24 months) is required if you do not meet the bachelor's degree or doctoral degree requirement in agricultural sciences, biological sciences, natural sciences, or pest management. Work experience may also be used to fulfill part of the core course requirements for Pest Management Systems and Methods, and Production Systems. Documentation verifying work experience is required (e.g., letter from employer, pay stub).

Description of Technical Experience	Length of Time (Number of Months and/or Years)

\*The director may grant 3 semester or 4.5 quarter units for nontraditional courses such as Senior Project, Internship, Cooperative Work Experience, Independent Study, Dissertation, Thesis, and Enterprise Project in each core area of Crop Health, Pest Management Systems and Methods, and Production Systems. Documentation verifying these courses is required (i.e., course description and justification for the course category).

College/Universities Attended (submit official transcripts):

\_\_\_\_\_

College Degree(s) \_\_\_\_\_ Date Granted \_\_\_\_\_

\_\_\_\_\_ Date Granted \_\_\_\_\_

\_\_\_\_\_ Date Granted \_\_\_\_\_

Major: \_\_\_\_\_

**Minimum Core Course and/or Work Experience Requirements Exemption**

If you previously possessed a valid California Agricultural Pest Control Adviser License, you are exempt from meeting the minimum core course and/or work experience requirements. However, you must still pass the required examinations. Please submit the application, appropriate fee, and a copy of your expired license. If an expired license is unavailable, provide the following information:

Adviser License No: \_\_\_\_\_ License Issuance Date: \_\_\_\_\_

**MINIMUM EDUCATION QUALIFICATIONS FOR  
AGRICULTURAL PEST CONTROL ADVISERS**

(EST. 06/08)

You must meet the minimum qualifications listed below before you can take the agricultural pest control adviser (PCA) licensing examinations. Please submit the *Agricultural Pest Control Adviser Core Course Requirements for New License Applicants* form (PR-PML-085) to ensure you meet these requirements.

**Options to  
fulfill minimum  
qualifications**

You must meet **one** of the following options in order to qualify for this license.

Option	College degree	Core courses	Work experience	Grade point average
Option 1	Bachelor's degree (i.e., B.A. or B.S.) in one of the following areas: <ul style="list-style-type: none"> <li>• Agricultural sciences</li> <li>• Biological sciences</li> <li>• Natural sciences</li> <li>• Pest management</li> </ul>	42 semester or 63 quarter units in the following areas: <ul style="list-style-type: none"> <li>• Physical and biological sciences</li> <li>• Crop health</li> <li>• Pest management systems and methods</li> <li>• Production systems</li> </ul>	Letter	2.0 grade point average in all core courses

**Option 1 Required Documents:**

- Official college/university transcript(s) verifying Bachelor's Degree in Agricultural Sciences, Biological Sciences, Natural Sciences or Pest Management.
- Letter(s) from your employer(s) verifying your technical experience and time employed if applicable for college course credit.
- Valid Certified Crop Adviser License copy.
- Agricultural Pest Control Adviser Core Course Requirements for New License Applicants, form (PR-PML-085), completion to show applicant meets minimum qualifications for the license.
- Agricultural Pest Control Adviser License Application form (PR-PML-084).
- Payment for the application and examination fees.

Option	College degree	Core courses	Work experience	Grade point average
Option 2	Doctoral degree (i.e., Ph.D.) in one of the following areas: <ul style="list-style-type: none"> <li>• Agricultural sciences</li> <li>• Biological sciences</li> <li>• Natural sciences</li> <li>• Pest management</li> </ul>	None required	None required	None required

**Option 2 Required Documents:**

- Official college /university transcript(s) verifying PhD. in the Agricultural Sciences, Biological Sciences, Natural Sciences or Pest Management.
- Agricultural Pest Control Adviser License Application form (PR-PML-084).
- Payment for the application and examination fees.

Option	College degree	Core courses	Work experience	Grade point average
Option 3	None required	42 semester or 63 quarter units in the following areas: <ul style="list-style-type: none"> <li>• Physical and biological sciences</li> <li>• Crop health</li> <li>• Pest management systems and methods</li> <li>• Production systems</li> </ul>	24 months combined	2.0 grade point average in all core courses

**Option 3 Required Documents:**

- Official college/university transcript(s) to verify the core courses completed meets the 42 semester or 63 quarter units requirement.
- Letter(s) from your employer verifying your technical experience and time employed as meeting the 24 months requirement.
- Letter(s) from your employer(s) verifying your technical experience and time employed if applicable for college course credit. The technical experience used to fulfill the 24 months requirement, can not be used to meet the college credit requirement.
- Valid Certified Crop Adviser License copy for college credit if applicable.
- Agricultural Pest Control Adviser License form (PR-PML-084).
- Agricultural Pest Control Adviser Core Course Requirements for new License Applicants form (PR-PML-085) – completion to show applicant meets the minimum qualifications for the license.
- Payment of the application and examination fees.

**Work experience**

The following table lists the 24 months of work experience required by Option 3.

Required time	Working as a(n) ...
24 months combined	<ul style="list-style-type: none"> <li>• Assistant to a licensed agricultural pest control adviser</li> <li>• Assistant to a pest management specialist (e.g., farm adviser, certified commercial applicator, certified private applicator, or licensed pest control dealer)</li> <li>• Field sweeper, field checker, or scout</li> <li>• Participant in field or laboratory research activities relating to pest control</li> <li>• Participant in agricultural pest control/management activities for a federal, state, or county entity</li> <li>• Qualified applicator licensee in category A, C-J, or L-Q for a licensed pest control business</li> <li>• Farm operator involved in agricultural pest control/management activities</li> <li>• Assistant to or as a certified crop adviser accredited by the American Society of Agronomy</li> </ul>
12 months only (the other 12 months must come from above)	<ul style="list-style-type: none"> <li>• Qualified applicator licensee in category B or K for a licensed pest control business</li> <li>• Structural pest control operator or field representative for a registered structural pest control company</li> </ul>

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## Core courses

The following table lists the core courses required by Options 1 and 3.

Core area	Examples of acceptable courses	Required units	
		Sem	Qtr
Physical, biological sciences and natural sciences	<ul style="list-style-type: none"> <li>Inorganic chemistry</li> <li>Organic chemistry</li> <li>Biochemistry</li> <li>Plant biology or botany</li> <li>General ecology</li> <li>Biology</li> <li>Genetics</li> <li>Plant physiology</li> <li>Zoology</li> </ul>	12	18
Crop health	<ul style="list-style-type: none"> <li>Soils and irrigation</li> <li>Vegetative management or weed science</li> <li>Plant pathology</li> <li>Entomology</li> <li>Plant nutrition or fertility</li> <li>Nematology</li> <li>Vertebrate management</li> <li>Senior project, internship, cooperative work experience, independent study, dissertation, or thesis (for a total of only 3 semester or 4.5 quarter units)</li> </ul> <p><b>Note:</b> A current crop adviser certificate may count towards 3 semester or 4.5 quarter units of this requirement.</p>	9	13.5
Pest management systems and methods (with at least one course emphasizing integrated pest management principles)	<p><b>Applied courses in ...</b></p> <ul style="list-style-type: none"> <li>Entomology</li> <li>Plant pathology</li> <li>Vegetation management or weed science</li> <li>Other pest management disciplines</li> </ul> <p><b>Courses related to ...</b></p> <ul style="list-style-type: none"> <li>Pesticides or use of pesticides</li> <li>Pest control equipment systems</li> <li>Alternative cropping systems</li> <li>Sustainable or organic agricultural systems</li> </ul> <p><b>Or ...</b></p> <ul style="list-style-type: none"> <li>Biological control</li> <li>Senior project, internship, cooperative work experience, independent study, dissertation, or thesis (for a total of only 3 semester or 4.5 quarter units)</li> </ul> <p><b>Note:</b> Related work experience may count towards 3 semester or 4.5 quarter units of this requirement.</p>	6	9
Production systems	<ul style="list-style-type: none"> <li>Horticulture</li> <li>Viticulture</li> <li>Forestry</li> <li>Agronomy</li> <li>Crop, vegetable, fruit, or animal sciences</li> <li>Other production systems (e.g., wildlife production, cattle production)</li> <li>Senior project, internship, cooperative work experience, independent study, dissertation, thesis, or enterprise project (for a total of only 3 semester or 4.5 quarter units)</li> </ul> <p><b>Note:</b> Related work experience may count towards 3 semester or 4.5 quarter units of this requirement.</p>	6	9
Electives	May be any course listed in the crop health, pest management systems and methods, and production systems core areas	9	13.5
<b>Total units required</b>		42	63

## SUGGESTED STUDY MATERIAL SOURCE LIST

### Agricultural Pest Control Adviser (PCA) License

Studying the suggested study material can make the difference between passing and failing Department of Pesticide Regulation (DPR) PCA licensing examinations. The examinations are based on the study materials listed below. Options for obtaining the study material include purchasing, viewing or downloading from the web, and borrowing from public or college libraries. Some University of California (UC) Extension/Farm Adviser offices sell the material. Instructions for obtaining study material are found on page 4.

### PRIMARY STUDY MATERIAL

#### Examination Title:

#### Laws, Regulations, and Basic Principles of Safe and Effective Pesticide Use Basic Principles of Integrated Pest Management (Core)

Study Material	Source
<u>Laws and Regulations Study Guide, Second Edition.</u> A.R. Gallo, 2011.	<ul style="list-style-type: none"> <li>• DPR, online: <a href="http://www.cdpr.ca.gov/docs/license/pubs/laws_regs_study_guide.pdf">http://www.cdpr.ca.gov/docs/license/pubs/laws_regs_study_guide.pdf</a></li> <li>• DPR, see page 4.</li> </ul>
<u>Knowledge Expectations for Pest Control Advisers: Integrated Pest Management.</u>	<ul style="list-style-type: none"> <li>• DPR, online: <a href="http://www.cdpr.ca.gov/docs/license/ipm.pdf">http://www.cdpr.ca.gov/docs/license/ipm.pdf</a></li> </ul>
<u>IPM in Practice, Principles and Methods of Integrated Pest Management, Second Edition.</u> M.L. Flint, 2012.	<ul style="list-style-type: none"> <li>• UC, see page 4.</li> </ul>

#### Examination Title:

#### Insects, Mites and Other Invertebrates (Category A)

Study Material	Source
<u>Knowledge Expectations for Pest Control Advisers: Insects, Mites, and Other Invertebrates.</u>	<ul style="list-style-type: none"> <li>• DPR online: <a href="http://www.cdpr.ca.gov/docs/license/arthropod.pdf">http://www.cdpr.ca.gov/docs/license/arthropod.pdf</a></li> </ul>
<u>Entomology and Pest Management, Sixth Edition (or higher edition).</u> L.P. Pedigo.	<ul style="list-style-type: none"> <li>• Book sellers</li> <li>• Libraries</li> </ul>
<u>IPM in Practice, Principles and Methods of Integrated Pest Management, Second Edition.</u> M.L. Flint, 2012.	<ul style="list-style-type: none"> <li>• UC, see page 4.</li> </ul>
<u>Pest identification: Insects, mites, &amp; other invertebrates.</u>	<ul style="list-style-type: none"> <li>• UC, online: <a href="http://www.ipm.ucdavis.edu/PCA/pcainvert.html">http://www.ipm.ucdavis.edu/PCA/pcainvert.html</a></li> </ul>
<u>How to Reduce Bee Poisoning from Pesticides,</u> article. H. Riedl, E. Johansen, L. Brewer, and J. Barbour, 2006.	<ul style="list-style-type: none"> <li>• Oregon State University, Pacific Northwest Extension Publication, online: <a href="http://www.science.oregonstate.edu/bpp/insect_clinic/pests/pnw591.pdf">http://www.science.oregonstate.edu/bpp/insect_clinic/pests/pnw591.pdf</a></li> </ul>
<u>Bee Basics: An Introduction to Our Native Bees.</u> B. Moisset and S. Buchmann, 2011.	<ul style="list-style-type: none"> <li>• United States Department of Agriculture, online: <a href="http://www.fs.usda.gov/internet/fse/_stelpdb5306468.pdf">http://www.fs.usda.gov/internet/fse/_stelpdb5306468.pdf</a></li> </ul>

**Suggested Study Material Source List – Agricultural Pest Control Adviser (PCA) License**

**Examination Title:  
Plant Pathogens (Category B)**

<b>Study Material</b>	<b>Source</b>
<u>Knowledge Expectations for Pest Control Advisers: Plant Pathology.</u>	<ul style="list-style-type: none"> <li>DPR online: <a href="http://www.cdpr.ca.gov/docs/license/plntpath.pdf">http://www.cdpr.ca.gov/docs/license/plntpath.pdf</a></li> </ul>
<u>Plant Pathology, Fifth Edition</u> (or higher edition). G.N. Agrios.	<ul style="list-style-type: none"> <li>Book sellers</li> <li>Libraries</li> </ul>
<u>IPM in Practice, Principles and Methods of Integrated Pest Management, Second Edition.</u> M.L. Flint, 2012.	<ul style="list-style-type: none"> <li>UC, see page 4.</li> </ul>
<u>Pest identification: Plant pathogens.</u>	<ul style="list-style-type: none"> <li>UC online: <a href="http://www.ipm.ucdavis.edu/PCA/pcapath.html">http://www.ipm.ucdavis.edu/PCA/pcapath.html</a></li> </ul>
<u>How to Reduce Bee Poisoning from Pesticides</u> , article. H. Riedl, E. Johansen, L. Brewer, and J. Barbour, 2006.	<ul style="list-style-type: none"> <li>Oregon State University, Pacific Northwest Extension Publication, online: <a href="http://www.science.oregonstate.edu/bpp/insect_clinic/pests/pnw591.pdf">http://www.science.oregonstate.edu/bpp/insect_clinic/pests/pnw591.pdf</a></li> </ul>
<u>Bee Basics: An Introduction to Our Native Bees.</u> B. Moisset and S. Buchmann, 2011.	<ul style="list-style-type: none"> <li>United States Department of Agriculture, online: <a href="http://www.fs.usda.gov/internet/fse_documents/stelprdb5306468.pdf">http://www.fs.usda.gov/internet/fse_documents/stelprdb5306468.pdf</a></li> </ul>

**Examination Title:  
Nematodes (Category C)**

<b>Study Material</b>	<b>Source</b>
<u>Knowledge Expectations for Pest Control Advisers: Nematodes.</u>	<ul style="list-style-type: none"> <li>DPR, online: <a href="http://www.cdpr.ca.gov/docs/license/nematode.pdf">http://www.cdpr.ca.gov/docs/license/nematode.pdf</a></li> </ul>
<u>Pest Control Adviser Study Guide: Nematodes.</u>	<ul style="list-style-type: none"> <li>UC, online: <a href="http://entomology.ucdavis.edu/Faculty/Becky_B_Westerdahl/Classes/Kennem/">http://entomology.ucdavis.edu/Faculty/Becky_B_Westerdahl/Classes/Kennem/</a></li> </ul>
<u>IPM in Practice, Principles and Methods of Integrated Pest Management, Second Edition.</u> M.L. Flint, 2012.	<ul style="list-style-type: none"> <li>UC, see page 4.</li> </ul>

**Examination Title: Vertebrate  
Pests (Category D)**

<b>Study Material</b>	<b>Source</b>
<u>Knowledge Expectations for Pest Control Advisers: Vertebrate Pest Management.</u>	<ul style="list-style-type: none"> <li>DPR, online: <a href="http://www.cdpr.ca.gov/docs/license/vertebrate.pdf">http://www.cdpr.ca.gov/docs/license/vertebrate.pdf</a></li> </ul>
<u>Prevention and Control of Wildlife Damage.</u> S.E. Hygnstrom, R.M. Timm, and G.E. Larson, University of Nebraska Cooperative Extension, 1994.	<ul style="list-style-type: none"> <li>Internet Center for Wildlife Damage Management, University of Nebraska Cooperative Extension, online: <a href="http://icwdm.org/handbook/index.aspx#rod">http://icwdm.org/handbook/index.aspx#rod</a></li> </ul>
<u>Wildlife Pest Control Around Gardens and Homes, Second Edition.</u> T.P. Salmon, D.A. Whisson, and R.E. Marsh, 2006.	<ul style="list-style-type: none"> <li>UC, see page 4.</li> </ul>
<u>Pest identification: Vertebrate pests.</u>	<ul style="list-style-type: none"> <li>UC, online: <a href="http://www.ipm.ucdavis.edu/PCA/pcavert.html">http://www.ipm.ucdavis.edu/PCA/pcavert.html</a></li> </ul>



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<u>The Vertebrate Pest Control Handbook</u> , Vertebrate Pest Control Research Advisory Committee, UC.	<ul style="list-style-type: none"> <li>• UC, online: <a href="http://vpcrac.org/about/vertebrate-pest-handbook/">http://vpcrac.org/about/vertebrate-pest-handbook/</a></li> </ul>
<u>IPM in Practice, Principles and Methods of Integrated Pest Management, Second Edition</u> . M.L. Flint, 2012.	<ul style="list-style-type: none"> <li>• UC, see page 4.</li> </ul>

**Examination Title:  
Weed Control (Category E)**

Study Material	Source
<u>Knowledge Expectations for Pest Control Advisers: Weed Control</u> .	<ul style="list-style-type: none"> <li>• DPR, online: <a href="http://www.cdpr.ca.gov/docs/license/weeds.pdf">http://www.cdpr.ca.gov/docs/license/weeds.pdf</a></li> </ul>
<u>Principles of Weed Control, Fourth Edition</u> . California Weed Science Society, 2014.	<ul style="list-style-type: none"> <li>• Book sellers</li> <li>• Libraries.</li> </ul>
<u>Applied Weed Science, Third Edition</u> . M.A. Ross and C.A. Lembi, 2008.	<ul style="list-style-type: none"> <li>• Book sellers</li> <li>• Libraries.</li> </ul>
<u>Pest identification: Weeds</u> .	<ul style="list-style-type: none"> <li>• UC, online: <a href="http://www.ipm.ucdavis.edu/PCA/pcaweed.html">http://www.ipm.ucdavis.edu/PCA/pcaweed.html</a></li> </ul>
<u>Weeds of California and Other Western States</u> . J.M. DiTomaso and E.A. Healy, 2007.	<ul style="list-style-type: none"> <li>• UC, see page 4.</li> </ul>
<u>IPM in Practice, Principles and Methods of Integrated Pest Management, Second Edition</u> . M.L. Flint, 2012.	<ul style="list-style-type: none"> <li>• UC, see page 4.</li> </ul>

**Examination Title:  
Defoliation (Category F)**

Study Material	Source
<u>Knowledge Expectations for Pest Control Advisers: Defoliation and Other Harvest Aid Practices</u> .	<ul style="list-style-type: none"> <li>• DPR, online: <a href="http://www.cdpr.ca.gov/docs/license/defoliate.pdf">http://www.cdpr.ca.gov/docs/license/defoliate.pdf</a></li> </ul>
<u>Harvest Aid Materials and Practices for California Cotton</u> . R.B. Hutmacher, R.N. Vargas, S.D. Wright, and B.A. Roberts, 2003.	<ul style="list-style-type: none"> <li>• UC, online: <a href="http://anrcatalog.ucanr.edu/pdf/4043e.pdf">http://anrcatalog.ucanr.edu/pdf/4043e.pdf</a></li> <li>• UC, see page 4.</li> </ul>

**Examination Title:  
Plant Growth Regulators (Category G)**

Study Material	Source
<u>Knowledge Expectations for Pest Control Advisers: Plant Growth Regulators</u> .	<ul style="list-style-type: none"> <li>• DPR online: <a href="http://www.cdpr.ca.gov/docs/license/grthreg.pdf">http://www.cdpr.ca.gov/docs/license/grthreg.pdf</a></li> </ul>
<u>Plant Growth Regulators, Revised Edition</u> . University of California Agricultural and Natural Resources, 2003.	<ul style="list-style-type: none"> <li>• UC, see page 4.</li> </ul>

**SUPPLEMENTAL PCA EXAMS STUDY MATERIAL**

The PCA examinations are based on the primary suggested study material. It is highly recommended that the primary materials be studied to prepare for the examinations. The supplemental study material listed below *may* offer some additional help.

Study Material	Source
<u>The Safe and Effective Use of Pesticides, Second Edition.</u> P.J. O’Connor-Marer, 2000.	• UC, see page 4.
<u>Natural Enemies Handbook: The Illustrated Guide to Biological Control.</u> M.L. Flint and S.H. Dreistadt, 1998.	• UC, see page 4.
<u>Weeds of the West, New Revised Edition.</u> Western Society of Weed Science, 2009.	• UC, see page 4. • Book sellers. • Libraries.

**OBTAINING STUDY MATERIALS from the University of California and the Department of Pesticide Regulation**

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  - b. By phone: (800) 994-8849 or (510) 665-2195; or
  - c. Contact the local University of California Cooperative Extension/County Farm Adviser office.
2. Contact information for University of California, Agriculture & Natural Resources publications:
 

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 1301 S. 46<sup>th</sup> Street  
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 (800) 994-8849 or (510) 665-2195.

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  - a. Complete the Video/Publication Order Form, available at <http://www.cdpr.ca.gov/docs/dept/dpr003.pdf>, or
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