

*Certified Program:*



*Training managed by:*



## Residential New Construction (T24)

Class Code: 160511IS

Location: Southern CA Edison Energy Education Center  
6090 North Irwindale Avenue  
Irwindale, CA, 91702

Class Date/Time: Wednesday, May 11<sup>th</sup>- Thursday, May 12<sup>th</sup>, 2016 (*Lunch is not provided*)  
7:30 am - 4:30 pm

Cost: \$625 per person\*

You can sign up for the class on-line and pay via credit card at:  
[www.calcerts.com](http://www.calcerts.com) or call 916.985.3400x2013

\*There is an annual \$120.00 subscription fee due if you choose to become a CalCERTS California HERS Field Verification & Diagnostic Testing Rater. This fee covers your CalCERTS HERS membership and the administrative duties on our part to maintain your records. Project uploads for compliance verifications, whole-house ratings, and/or Energy Star certifications are also subject to additional fees.

**\*Prices subject to change without notice**

### *Target Market for this Course:*

**Residential New Construction** is a course that will teach the field verification and diagnostic testing requirements of Title 24, Part 6, Building Energy Efficiency Standards that are related to newly constructed homes. This course will teach students how to identify the HERS tests to be performed for a newly constructed home. This course will also identify the special tests and inspections that are required for newly constructed homes.

### *Incoming Skills Necessary:*

To better prepare candidates for work in the HERS industry we strongly suggest that those who enter possess some knowledge, skills, and abilities in the California HERS Program (HERS Basics) and the construction industry. An understanding of the various diagnostic tests required of a HERS Rater is also expected at this stage.

In the course of your rater work you may also be required to have the following knowledge, skills, and abilities required which are not taught in any CalCERTS trainings:

- High School diploma or GED
- 10<sup>th</sup> Grade English & Math minimal (especially fractions, percentages, geometry)
- Computer literacy
- Firm grasp of the English language (most codes and regulations are only in English)
- Ability to lift heavy objects (50 lbs. or more)
- Ability to inspect dark, tight, spaces

**Prerequisites:** You must be a Certified HERS Residential Alterations Rater (Complete and Pass HERS Basics, HERS Hands-On-Lab, HERS Residential Alterations, and HERS Residential Alterations Field House Exam).

**Course Duration:** 16 clock hours

**Learning Objectives:**

- Identify the field verification and diagnostic testing requirements of Title 24, Part 6, Building Energy Efficiency Standards for newly constructed homes.
- Demonstrate how to identify the HERS tests to perform.
- Perform the sampling procedure for HERS testing of newly constructed homes.
- Complete the Title 24 Compliance Forms for newly constructed homes.

**Learning Outcomes:**

At the end of this course, students will be able to:

- Identify the HERS Title 24 Compliance Forms that are used for the collection of HERS testing data for newly constructed homes.
- Recognize the HERS Field Verification and Diagnostic Testing requirements for newly constructed homes.
- Complete the documentation and reporting requirements for newly constructed homes.
- Perform high Quality Insulation Installation (QII) Inspection in newly constructed homes.
- Explain the requirements for the sampling procedure for newly constructed production homes.
- Complete the Title 24 Compliance Forms for newly constructed homes.

**Topics Covered in This Class:**

- Title 20, Requirements Specific to newly constructed homes.
- Title 24 Part 6, Requirements Specific to newly constructed homes.
- HERS Verification Requirements for newly constructed homes.
- Special Tests and Inspections for newly constructed homes.
- The People Involved in the process and their responsibilities.
- The steps in the process.
- Documentation and reporting requirements.
- High Quality Insulation Installation (QII) Inspection.
- High Quality Insulation Installation (QII) Inspection for Spray Polyurethane Foam.
- Sampling Procedures for newly constructed production homes.
- General Sampling Concepts.
- Title 24 Compliance Forms Used for newly constructed homes.

**How skills are measured:** Standardized exam at the conclusion of the course.

Some of the state mandated HERS tests/inspections are not covered in this class if they are specific to a certain credential (e.g., the identification of ice storage air conditioners is only required for Newly Constructed Buildings inspections). These topics are covered in the appropriate class.

***Standards of Candidate Evaluation (for individual certificate issuance):***

At the end of HERS Residential New Construction Day 2, all participants will take an open-book, multiple-choice written exam based upon; all the written materials provided to the candidate, the presentations in class, and the verbal education by the Trainer(s) within the classroom and the lab (if applicable).

### ***CalCERTS HERS Rater Written Exam Policies***

These rules are intended to ensure fairness, accuracy, consistency and validity of exam results. Failure to abide by these rules could result in ejection, or other disciplinary action.

1. At the beginning of each exam, the proctor will announce the time allowed for the exam. The time allowed is based on the number of questions on the exam.
2. The written exam must be taken on the day of instruction (or on the last day of a multiple day delivery), no exceptions.
3. A Scantron form, exam packet and #2 pencil will be provided to the candidate.
4. Fill in (shade) your answers firmly and neatly on the Scantron form. Completely erase any changed answers with a soft eraser. Do NOT staple, fold, tear or crumple the form. Do NOT draw or write on the bar code black lines on the left hand side of the exam. Do NOT write on or in the exam packet.
5. Print your first and last name where indicated on the Scantron form.
6. Print exam version (located on front page of exam packet) in the area above your name.
7. Print the name of the class (i.e. Class I, Class II, etc.) on the “subject” line of Scantron form.
8. Print the date you are taking the exam where indicated on the Scantron form.
9. A score of 80% is required to pass the CalCERTS written exam.
10. Candidates will not be informed which questions they have missed. They will only be informed of their score and whether they passed or failed.
11. Candidates must be prepared to show a valid Photo ID.
12. No cell phones may be used during the exam. Calculators will be provided.
13. No laptop computers may be used during the written exam.
14. The CalCERTS training manuals are the only written materials that may be referenced during the written exam. No other books or notes may be used. The answer to every question may be found or deduced from information in the training manuals. No other materials are needed to pass the exam.
15. Candidates may leave the room during the exam, but must hand over exam packet to Proctor until their return. No time will be added to time allotment for exiting exam.
16. Candidates may NOT write in training manual or exam booklet during exam. Scratch paper will be provided.
17. This is a professional level exam. THERE IS NO TALKING OR COMMUNICATING ALLOWED DURING THE EXAM. You must demonstrate your knowledge of the subject matter without assistance. You may NOT assist others during the exam.
18. There are multiple versions of each exam. They are similar to each other in terms of the topics covered and types of questions. Candidates will take a different version than those sitting to either side of them.
19. ALL exam packets must be turned in to the Proctor at the end of the exam.

### ***Written Exam Re-test Policies***

1. Candidates will be given three opportunities to pass each written exam (the initial attempt plus two re-test attempts).
2. Candidates must wait at least 48 hours to re-take any exam.
3. There will be an additional \$75.00 charge for a re-test attempt.
4. All of the above exam policies apply to a re-test as well (except item #2 above)
5. Candidates who do not pass an exam on their third attempt must retake the entire class, at full retail price, and pass the written exam if they wish to continue their pursuit of certification.
6. If a candidate does not pass the written exam after retaking the course, they will be excluded from becoming a CalCERTS HERS Rater for that classification indefinitely (i.e. New Construction Rater).

### ***Students Right to Cancel or Withdraw:***

Students have the right to cancel or withdraw and obtain a refund of charges paid through attendance at the first class session, or the seventh day after enrollment, whichever is later. Cancellation or Withdrawal notices must be submitted in writing by email to the Training Manager at [training@calcerts.com](mailto:training@calcerts.com). For more information, contact the Training Manager at (916) 985-3400 x2015.

The institution shall refund 100 % of the amount paid, less a non-refundable registration fee, if notice of cancellation is made through attendance at the first class session or by the seventh day after the enrollment, whichever is later. The refund policy for students who have completed less than 60 % of the course of instruction shall be due a pro rata refund. In this example below, the student has paid for the entire Instruction. The student attends 8 hours of 16 hours instruction and decides to withdraw.

We reserve the right to cancel classes for any reason. Every effort will be made to notify you of a cancelled class well in advance. If we cancel a class you will receive a full refund of the class fee, but we are not responsible for other costs (travel, hotel deposit, etc.).

### ***Materials utilized in this Course:***

Upon registration, you will receive a digital copy of the 2013 Newly Constructed Homes Training Manual. This is an intense training program and it is highly recommended, and expected that you read the manual prior to coming to training. Please note that when you arrive to training, a printed version of the manual will be provided to you.

Each participant will be given a Candidate Binder with all the applicable written course materials as described in the Course Outline above.

Any required diagnostic testing equipment and associated sundries will be provided by CalCERTS, Inc. Candidates are welcome to bring their own equipment if they'd like (may not be appropriate for all classes).

Candidates shall bring to class a pencil or pen, a calculator, and notepad.

*If you require any special assistance or accommodation during training or testing, please contact 916-985-3400x2013 or X 2015 or email [training@calcerts.com](mailto:training@calcerts.com).*

# Irwindale Eateries

(Within a 5 mile radius of 6090 North Irwindale-Irwindale)

| <b><u>Mexican Cuisine:</u></b>   | <b><u>Sandwich Spot:</u></b>   | <b><u>Pizza-Other:</u></b>   | <b><u>Fast Food:</u></b>   |
|--|--|--|--|
| <p><b>El Matador 2</b><br/>5312 Irwindale Ave<br/>Baldwin Park, CA<br/>91706<br/>(626) 338-2080</p>      | <p><b>Picasso's Café</b><br/>6070 N Irwindale Ave<br/>Irwindale, CA 91702<br/>(626) 969-6100<br/><a href="http://picassoscafe.com">picassoscafe.com</a><br/><b>*Vegetarian options</b></p> | <p><b>Duarte Pizza</b><br/>2229 Huntington Dr<br/>Duarte, CA 91010<br/>(626) 303-1676<br/><b>*Vegetarian options</b></p> | <p><b>McDonald's</b><br/>6650 Irwindale<br/>Ave<br/>Irwindale, CA<br/>91702<br/>(626) 815-8979</p> |
| <p><b>Chica's Place</b><br/>251 S Irwindale Ave<br/>Azusa, CA 91702<br/>(626) 334-1341</p>               | <p><b>Subway</b><br/>16012 E Arrow Hwy<br/>Irwindale, CA 91706<br/>(626) 960-0058<br/><b>*Vegetarian options</b></p>   | <p><b>Farmer Boys</b><br/>6600 Irwindale Ave<br/>Irwindale, CA 91706<br/>(626) 815-8899</p>                              | <p><b>Taco Bell</b><br/>1150 W Foothill<br/>Azusa, CA 91702<br/>(626) 334-0889</p>                 |
| <p><b>Carls Jr/Green<br/>Burrito</b><br/>1190 W Foothill Blvd<br/>Azusa, CA 91702<br/>(626) 334-5340</p> | <p><b>Sante Fe Importers</b><br/>5240 Irwindale Ave,<br/>Baldwin Park, CA 91706<br/>(626) 337-8577<br/><b>*Vegetarian options</b></p>  |  |  |