



# ENERGY EDUCATION CENTERS

Workforce Education & Training

Q1 | 2019

# INFORMATION



## IRWINDALE

**Contact us:**  
800-336-2822  
energyeducationcenter@sce.com

**Location:**  
Energy Education Center – Irwindale  
6090 N. Irwindale Ave.  
Irwindale, CA 91702



## TULARE

**Contact us:**  
800-772-4822  
energyeducationcenter@sce.com

**Location:**  
Energy Education Center – Tulare  
4175 S. Laspina St.  
Tulare, CA 93274



## ON-LOCATION

Select classes are available in a city or town near you. Register for our Q1 2019 classes on page 8.



## ON-DEMAND

Take a class any day or time, 365 days a year, 24/7. Register for our On-Demand Classes on page 9.

### Key

- Basic Class
- ◆ Intermediate Class
- Advanced Class
- AIA** Class carries American Institute of Architects Learning Units
- FCSI** Foodservice Consultants Society International Continuing Education Units
- IDSM** This class is Integrated Demand Side Management compliant, and presents Energy Efficiency, Demand Response and/or Distributed Generation and utility-specific programs in the context of either whole-building systems or specific technologies.

# IRWINDALE

## Lighting Technologies

### Industrial Lighting with LED's ■NEW

1/23 8:30 AM – 4:30 PM

### Outdoor Lighting with LED's ■NEW

1/24 8:30 AM – 4:30 PM

### California Advanced Lighting Controls Training Program (CALCTP) Systems - (2 Day) ◆

1/29-1/30 4:00 PM – 9:00 PM

### Introduction to Lighting ●AIA

2/12 8:30 AM – 12:30 PM

### Advanced Lighting Control Systems for Specifiers ■IDSM

2/12 8:30 AM – 4:30 PM

### Emergency Lighting: Codes, Circuits, Controls & Calculations ◆

2/13 9:00 AM – 12:00 PM

### DALI and DMX Dimming ◆NEW

2/13 1:00 PM – 4:00 PM

### California Advanced Lighting Controls Training Program AT Technician: Lighting Acceptance Test Technician Certification Course - 2 Day Workshop ◆

2/19-2/20 8:00 AM – 4:00 PM

### From Candles to LEDs - Getting to the Point ◆AIA

2/26 8:30 AM – 12:30 PM

### From Fluorescent to Induction - An Area of Lamp Efficiency ◆

3/5 8:30 AM – 12:30 PM

### Office Lighting: Title 24 and Technology Update ◆AIA

3/5 8:30 AM – 3:00 PM

### Residential Lighting: Title 24 and Technology Update ◆AIA

3/6 8:30 AM – 2:30 PM

### Basics of LED Technology ●AIA

3/7 8:30 AM – 4:30 PM

### Integrating Photovoltaics Into the Building ■

3/26 8:30 AM – 12:30 PM

### Daylighting For Buildings ●AIA

3/28 8:30 AM – 12:30 PM

## Electrical Training

### Fundamentals of Electricity and Energy Efficiency ●IDSM

2/5 8:30 AM – 4:30 PM

## Building Envelope, Construction, & Software

### Beginning EnergyPro 7 Residential ●AIA

2/28 12:30 PM – 4:00 PM

### Beginning EnergyPro 7 Nonresidential ●AIA

2/28 8:30 AM – 12:00 PM

### 2016 Title 24 Part 6 Residential Overview ●

3/20 8:00 AM – 5:00 PM

### Introduction to CBECC-Res Energy Modeling Software for Residential Buildings ●AIA

3/21 8:30 AM – 4:00 PM

### Advanced EnergyPro 7 Nonresidential ■AIA

3/28 8:30 AM – 12:00 PM

### Advanced EnergyPro 7 Residential ■AIA

3/28 12:30 PM – 4:00 PM

## HVAC/R Systems & Technologies

### IHACI: (CAQI/QM/QS) Gas Heating Module Part 1- Practical Fundamentals and Theory of Gas Heating ◆

1/23 6:00 PM – 9:00 PM

### IHACI: (CAQI/QM/QS) Gas Heating Module Part 2- Quality Installation, Maintenance, and Service of Gas Heating Systems ◆

1/24 6:00 PM – 9:00 PM

### Residential and Light Commercial HVAC ◆

1/29 8:30 AM – 4:00 PM

### Manual J ■

2/12 8:00 AM – 12:00 PM

### Manual S ◆

2/12 1:00 PM – 5:00 PM

### HVAC Control Basics ●

2/12 8:30 AM – 3:00 PM

### IHACI: (CAQI/QM/QS) Electrical Module Part 1 - Practical Fundamentals and Theory of HVAC/R Systems ◆

2/12 6:00 PM – 9:00 PM

### Manual D ◆

2/13 8:00 AM – 5:00 PM

### IHACI: (CAQI/QM/QS) Electrical Module Part 2 - Essential HVAC/R System Motor Theory for the Field Technician ◆

2/13 6:00 PM – 9:00 PM

### IHACI: (CAQI/QM/QS) Electrical Module Part 3 - Different Electrical Components Found in the HVAC/R Industry ◆

2/19 6:00 PM – 9:00 PM

### IHACI: (CAQI/QM/QS) Electrical Module Part 4 - Electrical Schematics: A Roadmap to Diagnosing a HVAC/R System ◆

2/20 6:00 PM – 9:00 PM

### IHACI: (CAQI/QM/QS) Air Distribution Module Part 1 - Practical Fundamentals and Physical Properties of Air ◆

3/6 5:00 PM – 9:00 PM

### IHACI: (CAQI/QM/QS) Air Distribution Module Part 2 - Practical Fundamentals and Theory of Proper Air Distribution Design ◆

3/7 6:00 PM – 9:00 PM

### HVAC System Airflow Analysis ●

3/19 8:00 AM – 12:00 PM

### Hands-on Refrigerant Charge Measurement ●

3/19 1:00 PM – 5:00 PM

### IHACI: (CAQI/QM/QS) Air Distribution Module Part 3 - Fundamental Theory and Techniques of Air Side Design and Installation ◆

3/20 6:00 PM – 9:00 PM

### IHACI: (CAQI/QM/QS) Air Distribution Module Part 4 - Advanced Theory and Techniques of Air Side Design and Installation ◆

3/21 6:00 PM – 9:00 PM

### Basic Heating, Ventilating and Air Conditioning (HVAC) ●IDSM

3/27 8:30 AM – 3:00 PM

## Foodservice Technologies

### Putting the Kitchen of the Future to the Test ●FCSI

3/14 8:00 AM – 8:00 PM

## Pumps and Water Delivery

### Pump Testing and Improving Your Pumping Plant Efficiency ◆

2/26 8:30 AM – 11:30 AM

## Sustainability

### CALGreen Title 24 Part 11 ◆AIA

2/7 8:30 AM – 12:30 PM

## Zero Net Energy

### Zero Net Energy Design ◆

2/26 1:00 PM – 5:00 PM

# TULARE

## Lighting Technologies

**Introduction to Lighting** ●AIA

2/26 9:00 AM – 12:00 PM

**Basics of LED Technology** ●AIA

3/12 4:00 PM – 6:00 PM

**Fundamentals of Lighting Controls for Commercial Spaces** ●

3/12 6:00 PM – 8:00 PM

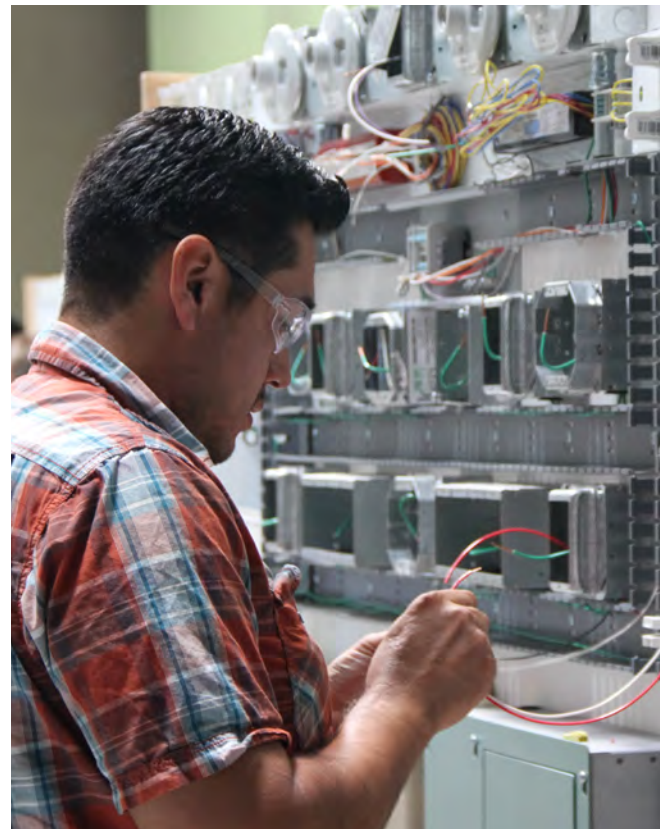
## Electrical Training

**Electrical Safety** ●

3/5 8:30 AM – 4:30 PM

**Fundamentals of Electricity and Energy Efficiency** ●IDSM

3/6 8:30 AM – 4:30 PM



## Energy Management Controls

**Introduction to Programmable Logic Controllers: Energy Efficiency Applications** ●IDSM

3/4 8:30 AM – 4:00 PM

**PLC LEVEL 1: Industrial Electricity and Automated Controls (3-Day Workshop)** ●

3/5-3/7 5:30 PM – 9:30 PM

**PLC LEVEL 2: Industrial Electricity and Automated Controls (3-Day Workshop)** ●

3/12-3/14 5:30 PM – 9:30 PM

**PLC LEVEL 3: Industrial Electricity and Automated Controls (3-Day Workshop)** ●

3/26-3/28 5:30 PM – 9:30 PM

## HVAC/R Systems & Technologies

**IHACI: (CAQI/QM/QS) Gas Heating Module Part 1 - Practical Fundamentals and Theory of Gas Heating** ●

1/16 6:00 PM – 9:00 PM

**IHACI: (CAQI/QM/QS) Gas Heating Module Part 2 - Quality Installation, Maintenance and Service of Gas Heating Systems** ◆

1/17 6:00 PM – 9:00 PM

**IHACI: CA 2019 Title 24 Module Part 1** ◆

1/23 6:00 PM – 9:00 PM

**IHACI: CA 2019 Title 24 Module Part 2** ◆

1/24 6:00 PM – 9:00 PM

**Building Energy Science I - Preparation for Building Sealing** ●

1/29 5:00 PM – 9:00 PM

**Building Energy Science II - Residential Air Sealing** ●

1/30 5:00 PM – 9:00 PM

**IHACI: (CAQI/QM/QS) Electrical Module Part 1 - Practical Fundamentals and Theory of HVAC/R Systems** ●

2/20 6:00 PM – 9:00 PM

**IHACI: (CAQI/QM/QS) Electrical Module Part 2 - Essential HVAC/R System Motor Theory for the Field Technician** ●

2/21 6:00 PM – 9:00 PM

**IHACI: (CAQI/QM/QS) Electrical Module Part 3 - Different Electrical Components Found in the HVAC/R Industry** ◆

2/27 6:00 PM – 9:00 PM

**IHACI: (CAQI/QM/QS) Electrical Module Part 4 - Electrical Schematics: A Roadmap to Diagnosing a HVAC/R System** ◆

2/28 6:00 PM – 9:00 PM

**IHACI: (CAQI/QM/QS) Air Distribution Module Part 1 - Practical Fundamentals and Physical Properties of Air** ◆

3/13 6:00 PM – 9:00 PM

**IHACI: (CAQI/QM/QS) Air Distribution Module Part 2 - Practical Fundamentals and Theory of Proper Air Distribution Design** ◆

3/14 6:00 PM – 9:00 PM

**NCI: Commercial Air Balancing Certification Program Part 1 - The Key Elements of Air Balancing** ■

3/19 8:30 AM – 5:00 PM

**NCI: Commercial Air Balancing Certification Program Part 2 - Balancing Principles, Techniques and Reporting** ■

3/20 8:30 AM – 5:00 PM

**NCI: Commercial Air Balancing Certification Program Part 3 - Economizers & Kitchen Exhaust Systems: Certification Exam** ■

3/21 8:30 AM – 5:00 PM

**IHACI: (CAQI/QM/QS) Air Distribution Module Part 3 - Practical Fundamental Theory and Techniques of Air Side Design and Installation** ◆

3/27 6:00 PM – 9:00 PM

**IHACI: (CAQI/QM/QS) Air Distribution Module Part 4 - Advanced Theory and Techniques of Air Side Design and Installation** ◆

3/28 6:00 PM – 9:00 PM

## Foodservice Technologies

**Putting the Kitchen of the Future to the Test (Video Conference)** ●FCSI

3/19 10:00 AM – 2:00 PM

## Sustainability

**LEED® Green Associate: Taking the First Step in Green Building Using LEED** ●AIA

1/24 8:30 AM – 4:00 PM



# ON-LOCATION

## Building Envelope, Construction, & Software

### Title 24: Where We're Headed with the 2019 Standards AIA

03/01/19  
08:30 AM - 12:30 PM  
The Frontier Project  
10435 Ashford St.  
Rancho Cucamonga, CA 91730  
[Directions](#)

### Title 24: Where We're Headed with the 2019 Standards AIA

03/29/19  
08:30 AM - 12:30 PM  
South Bay Environmental Services Center  
20285 Western Ave., Suite 100  
Torrance, CA 90501  
[Directions](#)

## HVAC/R Systems & Technologies

### Variable Refrigerant Flow and Ductless Systems – Design and Application

02/15/19  
08:30 AM - 12:30 PM  
Irvine City Hall  
1 Civic Center Plaza  
Irvine, CA 92606  
[Directions](#)

## Lighting Technologies

### Introduction to Lighting AIA

02/28/19  
10:00 AM - 01:00 PM  
SCE Ventura Service Center  
10060 Telegraph Road  
Ventura, CA 93004  
[Directions](#)

### Basics of LED Technology AIA

03/14/19  
10:00 AM - 01:00 PM  
SCE Ventura Service Center  
10060 Telegraph Road  
Ventura, CA 93004  
[Directions](#)



# ON-DEMAND

## Sustainability

### Commercial Solar Overview

### Residential Solar Overview

## Lighting Technologies

### From Fluorescent to Induction: An Area of Lamp Efficiency AIA

### Introduction to Lighting AIA

### Review of Lighting Fundamentals

### Power Clips – Lighting

### Power Clips – IDSM

## Foodservice Technologies

### Hot Rebates, Cool Savings

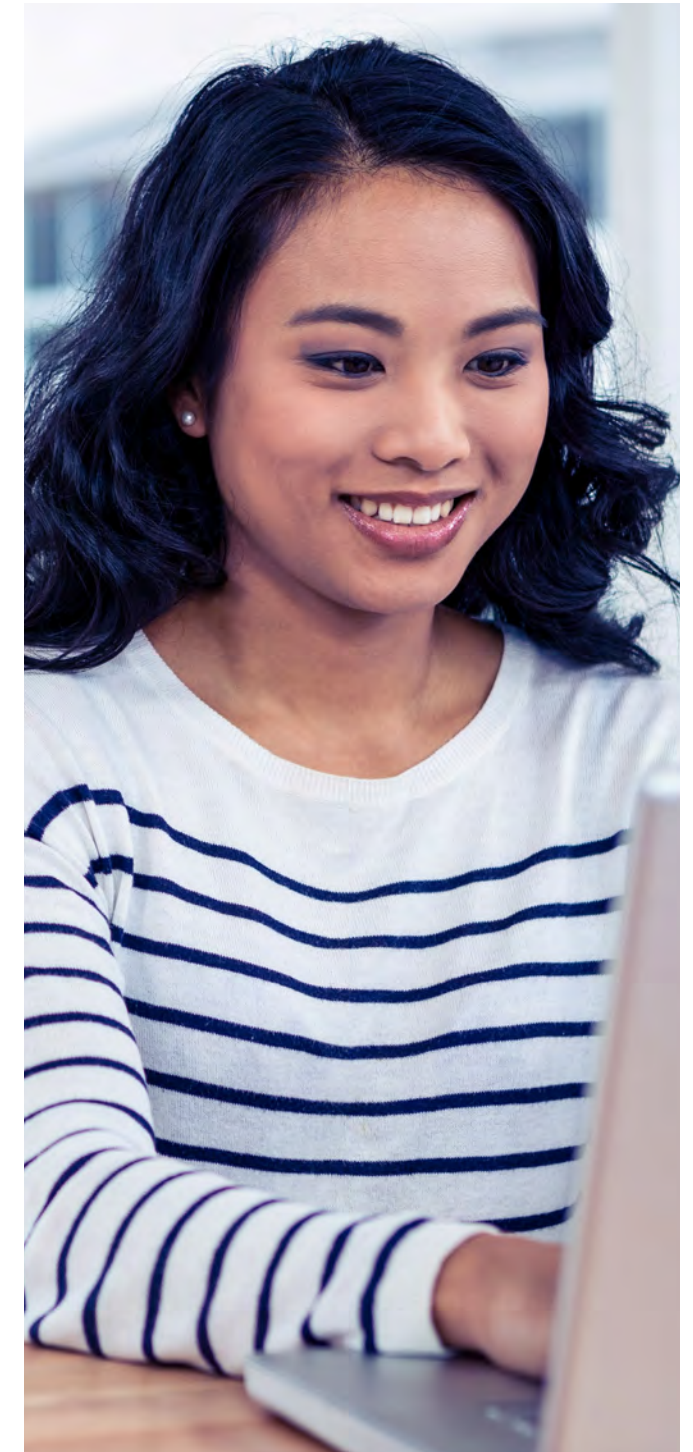
## HVAC/R Systems & Technologies

### Introduction to Heating, Ventilating and Air Conditioning (HVAC)

### Introduction to Portfolio Manager

### Save Energy, Save Money

### Power Clips – HVAC



# TOOL LENDING LIBRARY

The Tool Lending Library program loans tools free of charge to customers working on short-term energy-efficiency projects.

Tool users include building owners, facility managers, as well as energy services professionals in California. The range of tools includes lighting and plug load data loggers, infrared cameras, and air flow measurements tools for HVAC equipment.

The tools can provide information, help to troubleshoot performance problems on how to save energy and money.

**To check out a tool go to [sce.com/tools](http://sce.com/tools)**

# BLACK HISTORY MONTH 2019

Join us for the first of our 2019 Heritage Month Celebrations this February as Southern California Edison celebrates Black History Month.

Event information and registration details will be available at **[SCEHeritageEvents.com](http://SCEHeritageEvents.com)** beginning November 29. Attendee and Exhibitor registration will open in December 2018.

To be added to our Heritage Month Events mailing list, or for more information, please contact us at [SCEBusinessEngagement@sce.com](mailto:SCEBusinessEngagement@sce.com).



## IRWINDALE

**Contact us:**

800-336-2822

energyeducationcenter@sce.com

**Location:**

Energy Education Center – Irwindale

6090 N. Irwindale Ave.

Irwindale, CA 91702

## TULARE

**Contact us:**

800-772-4822

energyeducationcenter@sce.com

**Location:**

Energy Education Center – Tulare

4175 S. Laspina St.

Tulare, CA 93274

**Cancellation Policy:**

Classes are held subject to enrollment. If you are unable to attend, please call to cancel your reservation as soon as possible. More than two no-shows will jeopardize your ability to register for future classes.

**Note:**

Children under the age of 16 are not permitted to attend or participate in our adult education classes and workshops.

All reservations are subject to space availability. Reservations will be held for 15 minutes following the start of class after which time your seat may be given to a waiting customer. Please bring your confirmation with you to each event. The Energy Education Center reserves the right to cancel any class/workshop/event.

Disclaimer: Content of classes and other program information is general in nature and not guaranteed or warranted to provide solutions to any specific situation. Content is provided for information only. SCE's Energy Education Center-Tulare is not responsible for the views, interpretations or recommendations made in any program that reflect the positions of the presenters. SCE does not endorse any particular product, manufacturer or service discussed and does not represent any goods or services for any purpose or use other than demonstration. All classes are offered at no charge to SCE customers unless otherwise stated.