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## THE SATURN CURRICULUM

### TOOLS FOR TRAINING ENERGY-EFFICIENCY PROFESSIONALS

The *Saturn Curriculum* includes a suite of elements that can be delivered in the classroom, in an online environment, in a laboratory, or at field sites. This hybrid approach to technical education allows training organizations to optimize their existing resources and deliver the most effective and economical education possible.

The *Saturn Curriculum* is ideally suited to prepare individuals for the certification exams and field tests of the Building Analyst certification offered by the Building Performance Institute (BPI), or for the HERS Rater certification offered by the Residential Energy Services Network (RESNET). It also meets the requirements of the Department of Energy Weatherization Assistance Program.



### Curriculum Elements

#### Printed Publications

*Residential Energy: Cost Savings and Comfort for Existing Buildings*  
Nationally recognized textbook of building science principles.

*Saturn Student Handbook*

Study guide, course outlines, note-taking forms, worksheets, and reference sheets for field procedures.

*Trainer's Guide to Building Performance*

Background, principles, and guidelines for classroom and field training.

*The Energy Auditor Field Guide*

Detailed illustrated textbook of field procedures.

*Saturn Trainer's Handbook*

Discussion questions for books and slide shows, field training guides, tool lists.

*Technical Reference Sheets*

Compressed step-by-step guidance for critical field procedures.

#### Online Resources

*CHEC: The Comprehensive Home Energy Curriculum*

Narrated slide shows and videos that follow a sequential curricula for energy auditors. All can be projected directly into the classroom.

*Student Study Hall*

Student access to narrated slide shows, videos, and other course resources. Includes a secure proctoring environment for administering quizzes and examinations.

*Trainer's Resource Center*

A meeting space for faculty members, a repository for documents, and site of train-the-trainer events. Includes mentored discussion groups.

*Mentored Discussion Groups*

Saturn staff members offer ongoing assistance through on both technical and training issues.

#### Technical Support

*Ongoing improvement*

Scheduled technical updates for both printed and online resources.

*Technical Support*

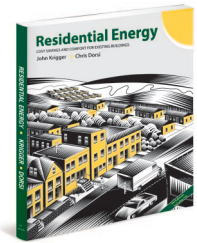
Unlimited technical support for the first 90 days, limited support thereafter.

## A. PRINTED PUBLICATIONS

The *Saturn Curriculum* includes some of the most popular textbooks in the industry. Taken as a group, these textbooks outline the current best practices for the science and business of building performance.

### ***Residential Energy***

*Residential Energy* provides the scientific basis upon which all the courses in the curriculum are based. This is the textbook already in use by the majority of building science educators in the country. Recently released in the fifth edition, *Residential Energy* includes 320 pages in a full-size perfect-bound format, with hundreds of graphics and dozens of detailed appendices.



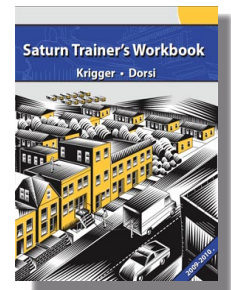
### ***The Saturn Energy Auditor Field Guide***

The *Saturn DOE Energy Auditor Field Guide* provides guidance for the field work performed by energy auditors. It is used as a textbook in courses for BPI Building Analysts, RESNET HERS Raters, and energy auditors for many other business sectors. The *Saturn Energy Auditor Field Guide* is 300 pages in a half-page spiral-bound format.



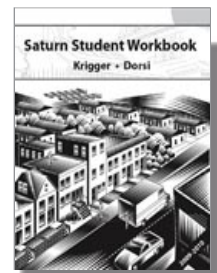
### ***Saturn Trainer's Handbook***

The *Saturn Trainer's Handbook* includes chapter-by-chapter support for the Saturn textbooks and slide shows, with topic outlines, worksheets, and discussion questions. Worksheets provide templates for teaching the math and physics of building science. Field exercise sheets outline the set-up and conduct of effective training exercises outside the classroom, with tool lists and step-by-step training outlines. It also offers time-tested guidance on setting up the classroom, developing new curricula, managing online and face-to-face classrooms, and proctoring examinations. The *Saturn Trainer's Handbook* is printed in a full-size center-stapled format.



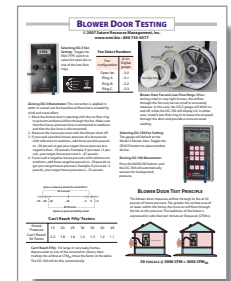
### ***Saturn Student Handbook***

The *Saturn Student Handbook* includes course outlines, knowledge summaries, math exercises, worksheets, and tool lists. It is keyed to subjects covered in the online CHEC slide shows. Note-taking handouts include a printed version of the CHEC slides in 4-up format. The *Saturn Student Handbook* is printed in a full-size center-stapled format.



### ***Technical Reference Sheets***

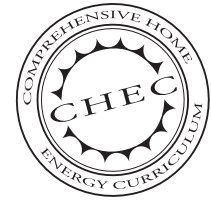
The reference sheets offer guidance for performing field procedures. They are printed as sturdy two-sided color laminated sheets that can survive the rigors of the workplace. Topics include *Blower Door Testing*, *Duct Testing*, and *Testing Gas Furnaces*.



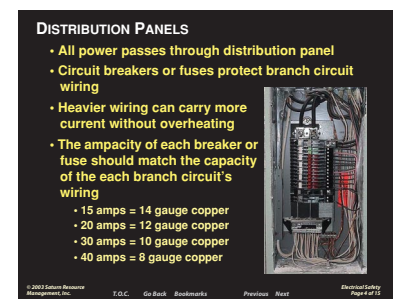
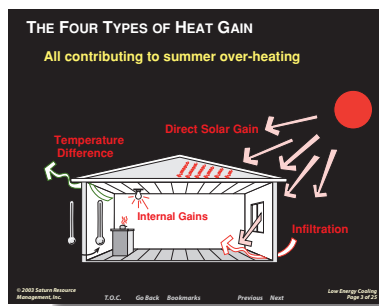
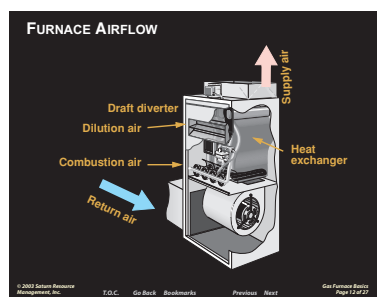
## B. ONLINE RESOURCES

### *CHEC: Narrated Slide Shows and Videos*

The *Comprehensive Home Energy Curriculum (CHEC)* includes dozens slide shows and videos that are organized according to subject matter. Each show presents subject material in a logical and sequential series. Each slide includes narrations produced by John Krigger and Chris Dorsi that provide the background necessary for instructors to lead informative classroom discussions. These are the same slide shows that are made available to students at Saturn Online.



CHEC slide shows and videos are viewed in the classroom directly through a web-connected browser. They are also available in the online Student Study Hall, allowing students to review the slide shows outside the classroom.



### *The Trainer's Resource Center*

The *Saturn Trainer's Forum* is an online resource center for faculty members who teach the business and science of energy efficiency. It offers exclusive access to teaching aids used in colleges, trade schools, and training centers. Mentored Discussion Groups provide an opportunity to share ideas and resources among colleagues with similar interests. The Document Download Center contains digital versions of most of printed Saturn Curriculum elements, including the most recent version of updated publications.

### *Quizzes and Examinations*

Quizzes and exams are provided in a secure testing environment within Saturn Online. The subjects tested are keyed to each of the CHEC modules. The questions are all multiple choice, and are developed according to the standards of ANSI/ISO 17024.

Each student logs in with a unique name and password, and faculty members have secure access to a gradebook for each of their classes. An instructor's gradebook can be viewed online or downloaded as a spreadsheet.

### *Student Study Hall*

The *Student Study Hall* provides a password-protected online study environment for students who are enrolled in classroom training.

The *Study Hall* includes access to a student's version of the same narrated slide shows that are presented in the classroom. It also includes videos, interactive lessons, and other content that is exclusive to the online environment.

## C. LICENSING FEES AND TEXTBOOK COSTS

The Saturn Curriculum is licensed on an annual basis, with inception and renewal dates of August 1 each year. An initial registration and set-up fee is applied the first year only. The licensing fee for the initial year is pro-rated semi-annually according to the time of purchase.

The licensing fees are for a single physical site, usually a campus or training center. For trainers who travel to temporary locations, an additional site license is not usually required. For institutions with multiple physical locations, additional site licenses are always required.

Each Student Box includes all the printed materials needed to support the curriculum, plus an enrollment key that allows access to the online *Student Study Hall*. Each Trainer's Box includes all the materials from the *Student Box*, plus the *Saturn Trainer's Handbook* and other support documents. Each Trainer's Box also includes a one-year enrollment for one instructor to the *Trainer's Resource Center*.

Description		Cost
First-year registration and set up.	Any number of training sites	\$4700
Annual licensing fee. <i>Includes all instructional materials and periodic updates.</i>	Per training site	\$2200
<b>Total first-year cost</b>	<b>Single training site</b>	<b>\$6900</b>
Subsequent year annual licensing fee.	Per training site	\$2200
The Student Box. <i>Residential Energy, Energy Auditor Field Guide, Saturn Student Handbook, Technical Reference Sheets, and password access to online Student Study Hall. Price does not include shipping.</i>	Per student	\$190
The Trainer's Box. <i>Saturn Trainer's Handbook, Trainer's Guide to Building Performance, Residential Energy, Energy Auditor Field Guide, Saturn Student Handbook, Technical Reference Sheets, and password access to online Trainer's Resource Center and Student Study Hall.</i>	Per instructor	\$490

For additional information, contact John Krigger, Chris Dorsi, or Darrel Tenter at 800-735-0577.