

C. COURSE DESCRIPTIONS

The following courses are currently available online or under development and available soon. The courses curriculum is studied online by individual students with the aid of online instructors, or in the classroom with the aid of live instructors, using supporting curriculum materials provided by Saturn. All textbooks and supporting curriculum materials are available from Saturn.

Building Science Overview

This course lays out the most important fundamentals of building science, building performance, and building retrofit. The course is a good introduction for technicians, management personal, new customer-service employees and others who have little or no background in building technology. The course requires around 25 hours, has four sections with four quizzes, and has it's own 36-page textbooklet.

Energy Auditor

Our energy auditor courses have two separate audiences: certification candidates for BPI and RESNet certification and weatherization energy auditors. The textbooks are *Residential Energy* and our *Energy Auditor Field Guide*. This challenging course requires around 60 hours, contains seven quizzes, and finishes with a final exam. This curriculum focuses on an understanding of energy consumption in homes, the energy auditing process, diagnostic testing, and the building-science-based energy retrofit. The energy auditor curriculum is fully developed with a student workbook, which is part of a student box of resource materials.

Building Shell Technician

Saturn's building shell technician curriculum is approximately 80 percent complete and includes a beginning and advanced course. This curriculum depends on video more and less on analytical knowledge compared to the energy auditor curriculum. The textbooks are *Residential Energy* and our *Building Shell Field Guide*. The quizzes and final exam are less challenging than the energy auditor curriculum in order to acknowledge a lower education level and less need for intellectual knowledge. The courses require around 50 hours each for both beginning and advanced. The curriculum focuses on insulation, air sealing, and associated building repair.

HVAC Technician

Saturn's HVAC technician curriculum is approximately 50 percent complete and includes a beginning and advanced course. The textbooks are *Residential Energy* and our *HVAC Field Guide*. This curriculum depends on narrated slide shows for intellectual content and video for field-based virtual reality. The quizzes and final exams are very challenging due to the need for intellectual knowledge along with installation and troubleshooting skills. The courses require around 60 hours each for both beginning and advanced. The curriculum focuses on the operation and energy optimization of forced-air heating and air conditioning systems.

Certified Lead Renovator

After April 22, 2010, all renovation of homes built before 1978 must follow the EPA's Repair, Renovation, and Painting rule. Each job must be supervised by a Certified Lead Renovator (CLR), who is a worker or supervisor. The CLR must have 8 hours of training on lead-safe work practices and must train other workers on the job to control dust and clean up according to EPA regulations. We offer 6 hours of training online and facilitate the knowledge testing and the field testing needed for certification. The text is an EPA publication and the test must be administered by an EPA accredited trainer.

D. SATURN'S ONLINE TESTING SERVICES

Saturn provides online testing services to facilitate effective hiring and employee evaluation. The tests can also allow advanced students to test out of the entry-level courses. The tests available to our curriculum customers online include the following.

- ✓ Technical Literacy Test: Designed to test applicant's knowledge of very basic building and mechanical knowledge.
- ✓ Building Science Literacy test: Designed to test whether an applicant understands the basics of building science. This test is a good predictor of success in our energy auditing courses and is a test-out to our Basic Building Science course.
- ✓ Energy Auditing Literacy Test: This challenging test rates an energy auditor's knowledge and experience and is a test-out to our energy auditing courses.
- ✓ Insulation and Air-Sealing Literacy Test: Very strait forward and simple questions about R-values and installation of common insulation and air-sealing materials.
- ✓ HVAC Literacy Test: Tests basic knowledge and skills that would indicate entry level skills and ability to pass the NATE basic test or to test out of Saturn's basic HVAC course.

E. FEES AND COSTS

The Saturn Curriculum is licensed on an annual basis, with inception and renewal dates of August 1st each year. An initial registration and set-up fee is applied the first year only.

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.

The Trainer's Development Package includes enrollment in Saturn's Train the Trainer workshop in Helena, MT. This workshop is such an essential component of the Package that we require all curriculum trainers to attend at least one session. During this workshop trainers will learn advanced building science concepts, training skills, as well as how to present the courses. Each Trainer's Box includes all the materials necessary to train to the curriculum. The Trainer's Development Package also includes access to the online *Trainer's Resource Center*.

Each Student Box includes all the textbooks and other printed materials needed to support the curriculum, plus an enrollment key that allows access to the online *Student Study Hall*.

Description		Cost
First-year registration and set up. <i>Includes all instructional materials and periodic updates.</i>	Organizational license	\$4700
Site fee.	Per training site	\$2200
Total first-year cost	Single training site	\$6900
Subsequent year annual licensing fee.	Per training site	\$500
The Student Kit <i>Residential Energy, Energy Auditor Field Guide, Saturn Student Workbook, Technical Reference Sheets, and password access to online Student Study Hall.</i> <i>Price does not include shipping.</i>	Per student, per course	\$190
The Trainer's Development Package. <i>One seat at Saturn's Train the Trainer Workshop (\$2500 value), Saturn Trainer's Workbook, Trainer's Guide to Building Performance, Residential Energy, Field Guides, Saturn Student Workbooks, Technical Reference Sheets, and password access to online Trainer's Resource Center and Student Study Hall.</i>	Per instructor, per course	\$690
Create Custom Branded Website <i>Saturn brands Saturn Online web pages with a customer's organizational identity for use by that customer and its students.</i>	Per website	\$8900
Annual Course License Renewal	Per course	\$500
Customization of Website with Customer-Generated Content	Per hour	\$90

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