

2015 International Energy Conservation Code[®] **Study Companion**

From the publisher of the IECC[®]



2015 International Energy Conservation Code

Study Companion

ISBN: 978-1-60983-547-7

Cover Design:	Ricky Razo
Publications Manager:	Mary Lou Luif
Illustrator/Interior Design:	Beverly Ledbetter
Project Editor:	Greg Dickson
Manager of Development:	Doug Thornburg

COPYRIGHT 2015



ALL RIGHTS RESERVED. This publication is a copyrighted work owned by the International Code Council. Without advance written permission from the copyright owner, no part of this book may be reproduced, distributed or transmitted in any form or by any means, including, without limitation, electronic, optical or mechanical means (by way of example and not limitation, photocopying, or recording by or in an information storage and retrieval system). For information on permission to copy material exceeding fair use, please contact: ICC Publications, 4051 Flossmoor Rd, Country Club Hills, IL 60478, Phone 888-ICC-SAFE (422-7233).

The information contained in this document is believed to be accurate; however, it is being provided for informational purposes only and is intended for use only as a guide. Publication of this document by the ICC should not be construed as the ICC engaging in or rendering engineering, legal or other professional services. Use of the information contained in this workbook should not be considered by the user as a substitute for the advice of a registered professional engineer, attorney or other professional. If such advice is required, it should be sought through the services of a registered professional engineer, licensed attorney or other professional.

Trademarks: "International Code Council" and the "ICC" logo are trademarks of International Code Council, Inc.

Errata on various ICC publications may be available at www.iccsafe.org/errata.

First Printing: September 2015

Printed in the United States of America

TABLE OF CONTENTS

Study Session 1:

2015 IECC Chapters 1 and 5—Scope, Administration and Existing Buildings	1
Quiz	12

Study Session 2:

2015 IECC Chapters 2 and 3—Definitions and Climate Zones	19
Quiz	48

Study Session 3:

2015 IECC Sections C401 and C402 (partial)—Commercial Energy Efficiency—Part I	53
Quiz	66

Study Session 4:

2015 IECC Sections C402 (partial) and C403 (partial)—Commercial Energy Efficiency—Part II	73
Quiz	89

Study Session 5:

2015 IECC Sections C403 (partial) and C404—Commercial Energy Efficiency—Part III	95
Quiz	111

Study Session 6:

2015 IECC Section C405 (partial)—Commercial Energy Efficiency—Part IV	117
Quiz	127

Study Session 7:

2015 IECC Sections C405 (partial) through C408—Commercial Energy Efficiency—Part V	133
Quiz	149

Study Session 8:

2015 IECC Sections R401 and R402 (partial)—Residential Energy Efficiency—Part 1	155
Quiz	177

Study Session 9:

2015 IECC Sections R402 (partial) and R403—Residential Energy Efficiency—Part II	185
Quiz	208

Study Session 10:

2015 IECC Sections R404 through R406—Residential Energy Efficiency—Part III 213
Quiz 222

Answer Keys 227

INTRODUCTION

This study companion provides practical learning assignments for independent study of the provisions of the 2015 *International Energy Conservation Code*[®] (IECC[®]). The independent study format affords a method for the student to complete the study program in an unregulated time period. Progressing through the workbook, the learner can measure his or her level of knowledge by using the exercises and quizzes provided for each study session.

The workbook is also valuable for instructor-led programs. In jurisdictional training sessions, community college classes, vocational training programs and other structured educational offerings, the study guide and the IECC can be the basis for code instruction.

All study sessions begin with a general learning objective, the specific sections or chapters of the code under consideration, and a list of questions summarizing the key points of study. Each session addresses selected topics from the IECC and includes code text, a commentary on the code provisions, and illustrations representing the provisions under discussion. Quizzes are provided at the end of each study session. Before beginning the quizzes, the student should thoroughly review the referenced IECC provisions—particularly the key points.

The workbook is structured so that after every question the student has an opportunity to record his or her response and the corresponding code reference. The correct answers are located in the back of the workbook in the answer key.

Prior to the 2012 IECC, Chapter 1, Administration; Chapter 2, Definitions; and Chapter 3, Climate Zones; were followed by Chapter 4, Residential Energy Efficiency and Chapter 5, Commercial Energy Efficiency. The format of the 2012 IECC was revised to separate the Commercial Energy Efficiency and Residential Energy Efficiency provisions into two, stand-alone model codes. As such, each of these parts have separate chapters for Scope and Administration, Definitions and General Requirements (Climate Zones) followed by the energy efficiency provisions in Chapter 4 of each part. The 2015 IECC has now separated out the provisions for Existing Buildings into a new, separate Chapter 5, and Referenced Standards has remained the last chapter. All code sections are preceded by either the letter “C” for commercial provisions or the letter “R” for residential provisions.

Although there are two separate chapters each for Scope and Administration, Definitions, General Requirements and Existing Buildings because of the separation between commercial and residential, in this IECC Study Companion these chapters will be combined, and the letter “C” or “R” will only appear if the provision applies to only one of the two parts.

This study companion was originally developed by Eric Makela. The 2012 edition was updated by Peter Kulczyk, former Technical Staff member of the International Code Council, and Don Sivigny, Energy Specialist/Senior Code Representative for the State of Minnesota.

This 2015 edition has been updated by Andrew Klein, principal of A S Klein Engineering, PLLC, a professional engineering firm located in Pasco, Washington.

Questions or comments concerning this workbook are encouraged. Please direct your comments to ICC at *studycompanion@iccsafe.org*.

About the International Code Council

The International Code Council is a member-focused association. It is dedicated to developing model codes and standards used in the design, build and compliance process to construct safe, sustainable, affordable and resilient structures. Most U.S. communities and many global markets choose the International Codes. ICC Evaluation Service (ICC-ES) is the industry leader in performing technical evaluations for code compliance fostering safe and sustainable design and construction.

Headquarters: 500 New Jersey Avenue, NW, 6th Floor, Washington, DC 20001-2070

Regional Offices: Eastern Regional Office (BIR); Central Regional Office (CH); Western Regional Office (LA)

888-ICC-SAFE (422-7233)

www.iccsafe.org