

Instructor's Guide for *Murach's CICS* for the COBOL Programmer

This Instructor's Guide contains materials that make it easier for you to run a course based on our book, *Murach's CICS for the COBOL Programmer*.

How to install the Instructor's Guide

From the root directory of the Instructor's Guide CD, double-click on the file named Install.exe and respond to the dialog boxes that follow. This will install the directories and files of the Instructor's Guide on your PC in a directory structure that starts with C:\Murach\CICS.

Directory and file summary

The tables that follow summarize the directories and files that are installed on your C drive when you install the Instructor's Guide. Notice that the files are placed in two main directories: Instructors Guide for the teaching aids, and Programs for the sample programs that are presented in the book. These materials are described in more detail in the rest of this document.

These directories and files are also available on the CD starting in the top-level folders named Instructors Guide and Programs. As a result, you can use the files directly from the CD. Please note, however, that the files will be in Read-Only format if you copy them to your C drive without installing them. As a result, you won't be able to modify them unless you turn off the Read-Only attribute.

C:\Murach\CICS\Instructors Guide\...	Contents
Guide Summary	This Word document
Objectives and Tests	1) A Word file named Objectives & Terms.doc 2) A Word file named Review questions.doc 3) A Word file named Tests.doc 4) A Word file named Test answers.doc
PowerPoint Slides	One PowerPoint file for each chapter, named according to this pattern: Chxx slides.ppt (where xx is the chapter number)
Student Projects	Directories and files with all the materials you need for 7 CICS programming projects that you can assign to your students

C:\Murach\CICS\Programs\...	Contents
Program Summary	A Word file that lists the program files that are installed
Chapterxx (where xx is the chapter number for a chapter with sample programs)	The COBOL code, BMS mapset, and symbolic map for each sample program in that chapter
Copy Members	The Copy members required by the COBOL programs
Data Files	Test files for running the programs

Objectives & Terms

The Objectives & Terms document contains behavioral objectives for each of the 22 chapters in the text. These objectives describe what the students should be able to do when they complete each chapter. We prepared these objectives based on the principles presented by Robert F. Mager in his classic book, *Preparing Instructional Objectives*.

Some of the objectives are applied objectives that determine whether the students can apply what they've learned as they develop CICS applications on their own. Others are knowledge objectives that define skills like identifying, describing, and explaining the required concepts, terms, and procedures. In general, all students should be able to do the knowledge objectives, even if they have difficulty with the applied objectives.

If you compare the content of the book with the objectives, you'll see that the book presents more information than is represented by the objectives. That's by design. If your students can do all of the objectives, though, they will have accomplished a lot. Of course, you can also add, delete, or modify our objectives to suit your purposes.

To make it easy for you to present the objectives in class, we've included them at the start of the PowerPoint slides for the corresponding chapters. That way, the objectives can be used as an introduction to a chapter, and they can also be reviewed at the end of the chapter. That should help the students understand what their learning priorities should be.

Besides the objectives, this document lists the important terms that are presented in each chapter (these terminology lists also appear at the end of each chapter in the book itself). Although your students don't need to be able to give a rigid definition of each term, they should be familiar with all the terms presented and have a general understanding of them.

Review Questions

For each chapter, the Review Questions document gives you review questions that are based on the chapter objectives. As a result, your students can use these questions to check their mastery of the material and to prepare for the chapter test.

Tests and Test Answers

The Tests document contains 5 short-answer tests that cover the following material in the text:

Test 1	Section 1 (chapters 1 & 2)	Test 4	Section 3 (chapters 7-9)
Test 2	Chapters 3 & 4	Test 5	Section 5 (chapters 14-17)
Test 3	Chapters 5 & 6		

Note that there aren't tests for sections 4 and 6. That's because section 4 presents model programs rather than any new programming skills, and section 6 covers advanced features that are beyond the scope of most introductory courses.

The test questions are designed primarily to check for mastery of the chapter objectives (although they also check on the student's understanding of the terminology used in the chapter). As a result, each test presents one or more test items for each chapter objective.

Each test is divided into three sections. The first section requires short fill-in responses. The second section contains multiple choice questions that may have one or more correct answers. And the third section presents simple problems that ask the student to code macros, commands, or program code.

Because of the limitations of short-answer tests like these, they are best used as quizzes. That way, they will quickly let you determine whether the students are doing the required reading and are mastering the vocabulary of CICS. Then, you can use the student projects to determine whether the students are mastering the coding techniques that let them apply what they've learned in each chapter.

Because the tests are in Word, you can easily delete questions, modify questions, add your own questions, or divide a test into two or more smaller tests. You can also adjust the formatting to suit your purposes.

The Test Answers document provides our answers for the test items. We realize, though, that for the coding questions, there is often more than one acceptable solution. For example, in our model solutions, we show how to test response codes using Evaluate statements, but a student may use the If-Else structure instead and that would work as well.

PowerPoint slides

In this folder, you'll find one PowerPoint file for each chapter in sections 1-3 and 5-6 of the book. In general, the slides for each chapter are abridged versions of the figures presented in the book. As a result, the slides make it easy for you to review all of the information that the chapter presents. In addition, the slides include the objectives that describe what the students should be able to do when they complete each chapter.

If you want to modify any of the slides, you should know that we prepared them by copying the Word text from our figure files into PowerPoint. As a result, you can't modify the text in the normal way. Instead, you need to double-click on the text for a slide to open it up in Word, make the modifications to the text in Word, and click outside the text to return to PowerPoint.

Student Projects

To help you measure your students' progress during this course, we've provided 7 interrelated programming projects that let them apply the CICS skills they're learning. The Student Projects folder contains the materials you need to make use of these projects.

Project Administration

This Word document contains information about how to use the student projects in your course. To start, it describes the video rental application that is the basis of the projects, along with the data files that are involved. It also gives you some perspective as to how these projects fit into

your overall course structure: which chapters they're based on, which ones to assign first, which ones you might want to omit, and so on. Finally, it describes how you can prepare your mainframe system so that your students can develop and run the programs required by the projects.

Student Handout

You can make copies of the Student Handout document to give your students the information they need to develop the projects. It begins with a system overview and data flow diagram for the entire application, along with record descriptions and test data for the files. Then, for each project, there's a set of program specifications that includes a program overview and screen layout, just as they've seen in the text. The student's task is to design, code, and test the necessary CICS programs to implement these specifications.

Copy Members, Test Data, and Utility Programs

These folders provide the copy members, the test data, and the code for the subprograms that are required by the student projects. The files in each folder are detailed in the Project Administration document.

Project Solutions

The Word document in this folder contains model design solutions (event/response charts and structure charts) for the student projects. Obviously, most programming problems can have more than one design, so your students will probably come up with a number of acceptable variations. But at the least, you can use these models as starting points for evaluating your students' solutions.

This folder also includes one subordinate folder for each project. Then, in each project folder, you'll find the files you need for a complete program solution, including the BMS mapset, the symbolic map, and the COBOL code. These files are detailed in the Project Administration document.

Sample programs

The 12 sample programs that are presented in *Murach's CICS for the COBOL Programmer* are stored in the Programs directory. These programs provide models that your students can follow as they start to develop their own CICS programs. As a result, you may want to provide them with the sample code or demonstrate the programs in class. The Program Summary document in the Programs directory lists all the files that are included for each program and tells you how they're related to the figures in the book.

By the way, your students can also download these program files directly from our web site. To start, go to www.murach.com and click the Downloads link near the top of the page.

Your comments, please

What we've tried to do in this Instructor's Guide for *Murach's CICS for the COBOL Programmer* is provide the instructional materials that will help you the most. Now, we would very much appreciate getting your comments about these materials. What did you find useful? Are there other materials you need? Also, if you have had any problems using the materials, by all means let us know so we can fix them.

The easiest way to get your comments to us is to e-mail us at murachbooks@murach.com. But if you prefer to call or write, we'll take your comments any way we can get them. Whether or not we hear from you, though, we want to thank you for your interest in our products.

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