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Project 2010

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Carl Chatfield, PMP, and Timothy Johnson, MCP

Microsoft®

Microsoft Project 2010 Step by Step

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Contents at a Glance

Part 1	Simple Scheduling	
1	A Guided Tour of Project	2
2	Creating a Task List	22
3	Setting Up Resources	54
4	Assigning Resources to Tasks	72
5	Formatting and Sharing Your Plan	92
6	Tracking Progress on Tasks	122
Part 2	Advanced Scheduling	
7	Fine-Tuning Task Details	140
8	Fine-Tuning Resource Details	178
9	Fine-Tuning Assignment Details	188
10	Fine-Tuning the Project Plan	210
11	Organizing Project Details	232
12	Tracking Progress on Tasks and Assignments	256
13	Viewing and Reporting Project Status	278
14	Getting Your Project Back on Track	298

Part 3	Special Subjects	
15	Applying Advanced Formatting and Printing	316
16	Customizing Project	344
17	Sharing Project Information with Other Programs	370
18	Consolidating Projects and Resources	396
Part 4	Appendices	
A	A Short Course in Project Management	431
В	Roadmap for Developing Your Project and Project Management Skills	439
C	Using the Practice Files if Connected to Project Server	443
D	Using <i>Microsoft Project 2010 Step by Step</i> in a Classroom: Suggestions for Instructors	447
	Glossary	451
	Index	459

Contents

	Introducing Microsoft Project 2010xv
	New Features
	Let's Get Started!
	Modifying the Display of the Ribbon
	Dynamic Ribbon Elementsxx
	Changing the Width of the Ribbonxx
	Adapting Exercise Stepsxxiv
	Features and Conventions of This Book
	Using the Practice Files
	Your Companion eBook
	Getting Help
	Getting Help with This Book and Its Practice Filesxxix
	Getting Help with Project 2010xxiv
Part 1	Simple Scheduling
1	A Guided Tour of Project
	Introducing Project5
	The Backstage: Managing Files and Setting Options
	Templates: Avoid Reinventing the Wheel
	The Ribbon and Tabs: Finding the Features You Want
	Views: Working with Schedule Details the Way You Want
	Key Points
2	Creating a Task List 23
	Creating a New Project Plan
	Project Management Focus: Project Is Part of a Larger Picture24
	Entering Task Names27
	Project Management Focus: Defining the Right Tasks for the Deliverable 29
	What do you think of this book? We want to hear from you!
	Microsoft is interested in hearing your feedback so we can continually improve our books and learning resources for you. To participate in a brief online survey, please visit:

	Entering Durations	30
	Project Management Focus: How Do You Come Up with Accurate	
	Task Durations?	33
	Entering a Milestone	34
	Organizing Tasks into Phases	35
	Project Management Focus: Top-Down and Bottom-Up Planning	36
	Linking Tasks	37
	Switching Task Scheduling from Manual to Automatic	43
	Setting Nonworking Days	46
	Checking the Plan's Duration	49
	Documenting Tasks and the Project Plan	50
	Key Points	53
3	Setting Up Resources	55
	Setting Up Work Resources	56
	Equipment Resource Considerations	
	What Is the Best Way to Enter Resource Names?	
	Entering Resource Capacity	
	Entering Resource Pay Rates	
	Project Management Focus: Getting Resource Cost Information	62
	Adjusting Working Time for Individual Resources	63
	Setting Up Cost Resources	67
	Documenting Resources	68
	Key Points	71
4	Assigning Resources to Tasks	73
	Assigning Work Resources to Tasks	74
	The Scheduling Formula: Duration, Units, and Work	
	Controlling Work When Adding or Removing Resource Assignments	
	Project Management Focus: When Should Effort-Driven	
	Scheduling Apply?	88
	Assigning Cost Resources to Tasks	88
	Key Points	91

5	Formatting and Sharing Your Plan	93
	Customizing the Gantt Chart View	94
	Customizing the Timeline View	101
	Pan and Zoom the Gantt Chart View from the Timeline View	104
	Drawing on a Gantt Chart	104
	Copying Views	106
	Printing Views	109
	Customizing and Printing Reports	
	Key Points	
6	Tracking Progress on Tasks	123
	Saving a Project Baseline	124
	Tracking a Project as Scheduled	
	Entering a Task's Completion Percentage	129
	Entering Actual Values for Tasks	
	Project Management Focus: Is the Project on Track?	
	Key Points	137
D 2	Advanced Schoduling	
Part 2	Advanced Scheduling	- 4-
7	Fine-Tuning Task Details	141
	Adjusting Task Relationships	142
	Setting Task Constraints	147
	Interrupting Work on a Task	
		155
	Adjusting Working Time for Individual Tasks	
	Changing Task Types	
		158
	Changing Task Types	
	Changing Task Types	
	Changing Task Types	
	Changing Task Types. Assignment Units, Peak, Peak Units, and the Scheduling Formula Task Types and Effort-Driven Scheduling Entering Deadline Dates.	
	Changing Task Types. Assignment Units, Peak, Peak Units, and the Scheduling Formula Task Types and Effort-Driven Scheduling Entering Deadline Dates. Entering Fixed Costs	
	Changing Task Types. Assignment Units, Peak, Peak Units, and the Scheduling Formula Task Types and Effort-Driven Scheduling Entering Deadline Dates. Entering Fixed Costs Setting Up a Recurring Task.	
	Changing Task Types. Assignment Units, Peak, Peak Units, and the Scheduling Formula Task Types and Effort-Driven Scheduling Entering Deadline Dates. Entering Fixed Costs Setting Up a Recurring Task. Viewing the Project's Critical Path	
	Changing Task Types. Assignment Units, Peak, Peak Units, and the Scheduling Formula Task Types and Effort-Driven Scheduling Entering Deadline Dates. Entering Fixed Costs Setting Up a Recurring Task. Viewing the Project's Critical Path Scheduling Summary Tasks Manually	

8	Fine-Tuning Resource Details	179
	Setting Up Resource Availability	
	to Apply at Different Times	
	Entering Multiple Pay Rates for a Resource	
	Setting Up Pay Rates to Apply at Different Times	
	Setting Up Material Resources	
	•	
9	Fine-Tuning Assignment Details	189
	Delaying the Start of Assignments	
	Applying Contours to Assignments	
	Applying Different Cost Rates to Assignments.	
	Assigning Material Resources to Tasks	
	Variable Consumption Rates for Material Resources	
	Viewing Resource Capacity	
	Adjusting Assignments in the Team Planner View	
	•	
10	Fine-Tuning the Project Plan	211
	Examining Resource Allocations over Time	
	Project Management Focus: Evaluating Resource Allocation	
	Resolving Resource Overallocations Manually	
	Leveling Overallocated Resources	
	Checking the Project's Cost and Finish Date	
	Key Points	
11	Organizing Project Details	233
	Sorting Project Details	
	Grouping Project Details	238
	Filtering Project Details	242
	Customizing Tables	248
	Create Custom Fields Quickly	251
	Customizing Views	
	Key Points	254
12	Tracking Progress on Tasks and Assignments	257
	Updating a Baseline	258
	Saving Interim Plans	262

	Tracking Actual and Remaining Values for Tasks and Assignments Entering Actual Costs Manually	
	Tracking Timephased Actual Work for Tasks and Assignments	
	Project Management Focus: Collecting Actuals from Resources	
	Rescheduling Incomplete Work	
	Key Points	
13	Viewing and Reporting Project Status	279
	Identifying Tasks that Have Slipped	280
	Project Management Focus: Is Variance Ever a Good Thing?	281
	Project Management Focus: Getting the Word Out	286
	Examining Task Costs	287
	Examining Resource Costs	290
	Reporting Project Cost Variance with a Stoplight View	293
	Key Points	297
14	Getting Your Project Back	
	on Track	299
	Troubleshooting Time and Schedule Problems	
	Reduce Task Durations by Assigning Resource Overtime Hours	
	Troubleshooting Cost and Resource Problems	
	Troubleshooting Scope-of-Work Problems	
	Key Points	
Part 3	Special Subjects	
15	Applying Advanced Formatting and Printing	317
	Formatting a Gantt Chart View	318
	Formatting a Timeline View	
	Formatting a Network Diagram View	
	Formatting a Calendar View	
	Printing Views: Advanced Options	
	Printing Reports: Advanced Options	
	Key Points	342

16	Customizing Project	345
	Sharing Custom Elements Between Project Plans	346
	Recording Macros	351
	Editing Macros	
	Customizing the Ribbon and Quick Access Toolbar	362
	Key Points	368
17	Sharing Project Information with Other Programs	371
	Copying Project Data to Other Programs	372
	Opening Other File Formats in Project	377
	Saving to Other File Formats from Project	382
	Working with File Formats from Previous Versions of Project	386
	Generating Visual Reports with Excel and Visio	386
	Guided Tour: Synchronizing Task Lists Between Project and SharePoint	(Project
	Professional only)	
	Key Points	395
18	Consolidating Projects and Resources	397
	Creating a Resource Pool	398
	Creating a Dedicated Resource Pool	404
	Viewing Assignment Details in a Resource Pool	
	Updating Assignments in a Sharer Plan	406
	Updating a Resource's Information in a Resource Pool	408
	Updating All Plans' Working Times in a Resource Pool	411
	Linking New Project Plans to a Resource Pool	413
	Opening a Sharer Plan and Updating a Resource Pool	416
	Consolidating Project Plans	420
	Creating Dependencies Between Projects	423
	Key Points	428
Part 4	Appendices	
A	A Short Course in Project Management	431
	Understanding What Defines a Project	
	The Project Triangle: Viewing Projects in Terms of Time, Cost, and Scor	
	Time, Cost, and Scope: Managing Project Constraints	
	Managing Your Projects with Project	

В	Roadmap for Developing Your Project and Project Management Skills	439
	Joining a Project Learning Community	
C	Using the Practice Files if Connected to Project Server	443
	Changing Account Settings if Connected to Project Server Introduction to Enterprise Project Management	
D	Using <i>Microsoft Project 2010 Step by Step</i> in a Classroom Suggestions for Instructors	n: 447
	Matching Content to Instructional Needs	
	Teaching Project Management with Project	450
	Glossary	451
		450

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Introducing Microsoft Project 2010

Microsoft Project 2010 is a powerful program that helps you plan and manage a wide range of projects. From meeting crucial deadlines and budgets to selecting the right resources, Project 2010 offers easier and more intuitive experiences to help you be more productive and realize better results. You can use Project to:

- Create project plans at the level of detail that's right for your project. Work with summary data initially or shift to a more detailed approach when it's convenient. Control what tasks Project can schedule automatically or that you'll schedule manually.
- Manage tasks, costs, work, and resources at whatever level of detail is appropriate for your project's needs.
- See your project plan data in a variety of views. Apply grouping, highlighting, sorting, and filtering to see your data the way that you want.
- Track and manage your project plan throughout project execution.
- Collaborate and share data with others in your organization using a variety of productivity applications.
- Use resource pools, consolidated projects, and cross-project links to extend your project management focus across multiple projects.

Project 2010 builds on previous versions to provide powerful project management tools. This introduction provides an overview of new features that we explore throughout the book

New Features

If you're upgrading to Project 2010 from a previous version, you're probably most interested in the differences between the old and new versions and how they will affect you. The following sections list new features you will want to be aware of, depending on the version of Project you are upgrading from.

If You Are Upgrading from Project 2007

If you have been using Project 2007, you might be wondering what new features and interface changes Microsoft has added to its desktop project management application. The list of new features includes the following:

- The Microsoft Office Fluent interface (the "ribbon") No more hunting through menus, submenus, and dialog boxes. This new interface organizes all the commands that most people use in a new way, making them quickly accessible from tabs at the top of the program window.
- The Backstage view Finally, all the tools you need to work with your files are
 accessible from one location.
- Manually scheduled tasks Begin creating tasks with whatever information (numeric or text data) you may have, and don't worry about automatic scheduling of tasks until you're ready. Manually scheduled tasks are not affected by changes in duration, start or finish dates, dependencies, or other issues that otherwise would cause Project to reschedule a task. You can then switch individual tasks or an entire project plan from manual to automatic scheduling.
- Timeline view Create a visually compelling "project at a glance" view that includes just the summary tasks, tasks, and milestones that you choose. Easily copy the Timeline view as a graphic image to paste into other applications.
- Better pasting to Excel and Word Paste Project data into Excel or Word and preserve the column headings and outline structure of your Project data.
- Customizable ribbon Create your own tabs and groups to suit the way you work.
- Custom fields Just start typing a numeric value, date value, or text string into the rightmost column in a table, and Project will identify the right data type.
- AutoFilter improvements Use Microsoft Excel—like filtering, as well as sorting and grouping, right from AutoFilter arrows on column headings.
- Save as PDF or XPS Create PDF or XPS format documents directly from Project.
- Team Planner view (Project Professional only) Perform actions like reassigning a task from one resource to another with simple dragging in the Team Planner view.
- Inactivate tasks (Project Professional only) Disable (but don't delete) selected
 tasks from a project plan so they have no effect on the overall schedule but can be
 reactivated later if you need them.

 SharePoint Task List integration (Project Professional only) Publish and synchronize tasks between Project and a new type of Microsoft SharePoint list called a Project Task List.

If You Are Upgrading from Project 2003

In addition to the features listed in the previous section, if you're upgrading from Project 2003, you'll want to take note of the new features that were introduced in Project 2007. The 2007 upgrade included several new and improved features, including the following:

- **Visual reports** Export Project task, resource, or assignment details to Excel or Visio in a highly structured graphical format.
- Change highlighting See what values changed throughout a project plan immediately after you make a change to a calculated task, resource, or assignment value.
- Cost resources Assign this special type of resource to tasks to accrue categories of
 costs you wish to track, like travel or entertainment. Cost resources have no effect
 on the scheduling of tasks to which they are assigned.
- Task Inspector pane Called the Task Driver pane in Project 2007, the Task Inspector pane shows you details that affect the scheduling of a selected task.
- Multi-level Undo Back out of a series of actions when you need to.
- Calendar working time exceptions Record not just the date, but also an explanation of a resource or project calendar working time exception.

Let's Get Started!

We've been working with Project since it debuted for Windows, and each version has offered something that made project planning and management a little easier. Project 2010 is a substantial update for desktop project management, and we look forward to showing you around.

Modifying the Display of the Ribbon

The goal of the Microsoft Office working environment is to make working with Office documents, including Microsoft Project plans, Microsoft Word documents, Microsoft Excel workbooks, Microsoft PowerPoint presentations, Microsoft Outlook e-mail messages, and Microsoft Access database tables, as intuitive as possible. You work with an Office document and its contents by giving commands to the program in which the document is open. All Office 2010 programs organize commands on a horizontal bar called the ribbon, which appears across the top of each program window whether or not there is an active document.



A typical program window ribbon.

Commands are organized on task-specific tabs of the ribbon, and in feature-specific groups on each tab. Commands generally take the form of buttons and lists. Some appear in galleries. Some groups have related dialog boxes or task panes that contain additional commands.

Throughout this book, we discuss the commands and ribbon elements associated with the program feature being discussed. In this topic, we discuss the general appearance of the ribbon, things that affect its appearance, and ways of locating commands that aren't visible on compact views of the ribbon.

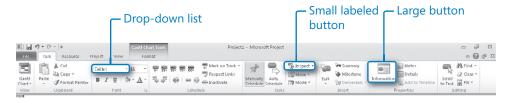
See Also For detailed information about the ribbon in Microsoft Project, see the section "The Ribbon and Tabs: Finding the Features You Want," in Chapter 1, "A Guided Tour of Project." For information about customizing the ribbon and other parts of the Project interface, see Chapter 16, "Customizing Project."

Tip Some older commands no longer appear on the ribbon but are still available in the program. You can make these commands available by adding them to the Quick Access Toolbar. For more information, see the section "Customizing the Ribbon and Quick Access Toolbar," in Chapter 16, "Customizing Project."

Dynamic Ribbon Elements

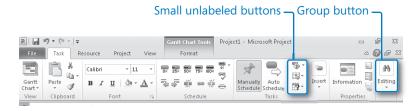
The ribbon is dynamic, meaning that the appearance of commands on the ribbon changes as the width of the ribbon changes. A command might be displayed on the ribbon in the form of a large button, a small button, a small labeled button, or a list entry. As the width of the ribbon decreases, the size, shape, and presence of buttons on the ribbon adapt to the available space.

For example, when sufficient horizontal space is available, the buttons on the Task tab of the Project program window are spread out and you're able to see more of the commands available in each group.



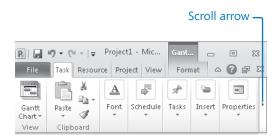
The Task tab of the Project program window at 1280 pixels wide.

If you decrease the width of the ribbon, small button labels disappear and entire groups of buttons hide under one button that represents the group. Click the group button to display a list of the commands available in that group.



The Task tab of the Project program window at 800 pixels wide.

When the window becomes too narrow to display all the groups, a scroll arrow appears at its right end. Click the scroll arrow to display hidden groups.



The Task tab of the Project program window at 393 pixels wide.

Changing the Width of the Ribbon

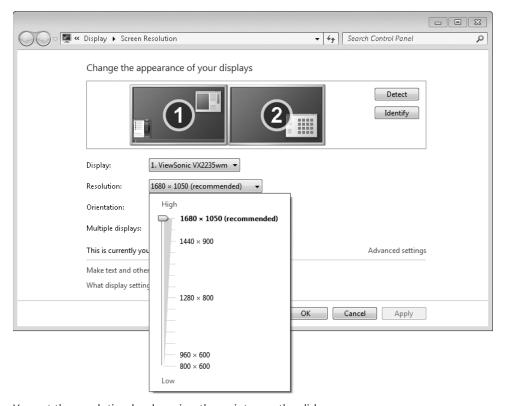
The width of the ribbon depends on the horizontal space available to it, which in turn depends on these three factors:

The width of the program window Maximizing the program window provides the
most space for ribbon elements. You can resize the program window by clicking
the button in its upper-right corner or by dragging the border of a non-maximized
window.

Tip On a computer running Windows 7, you can maximize the program window by dragging its title bar to the top of the screen.

• Your screen resolution Screen resolution is the size of your screen display expressed as pixels wide × pixels high. The greater the screen resolution, the greater the amount of information that will fit on one screen. Your screen resolution options depend on your monitor. At the time of writing, possible screen resolutions range from 800 × 600 to 2048 × 1152. In the case of the ribbon, the greater the number of pixels wide (the first number), the greater the number of buttons that can be shown on the ribbon, and the larger those buttons can be.

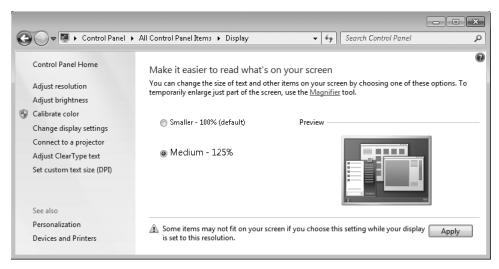
On a computer running Windows 7, you can change your screen resolution from the Screen Resolution window of Control Panel.



You set the resolution by dragging the pointer on the slider.

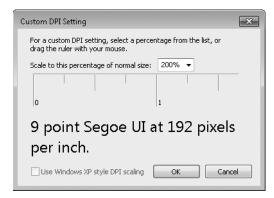
• The density of your screen display You might not be aware that you can change the magnification of everything that appears on your screen by changing the screen magnification setting in Windows. Setting your screen magnification to 125% makes text and user interface elements larger on screen. This increases the legibility of information, but it also means that less fits onto each screen.

On a computer running Windows 7, you can change the screen magnification from the Display window of Control Panel.



You can choose one of the standard display magnification options or create another by setting a custom text size.

The screen magnification is directly related to the density of the text elements on screen, which is expressed in dots per inch (dpi) or points per inch (ppi). (The terms are interchangeable, and in fact, they are both used in the Windows dialog box in which you change the setting.) The greater the dpi, the larger the text and user interface elements appear on screen. By default, Windows displays text and screen elements at 96 dpi. Choosing the Medium - 125% display setting changes the dpi of text and screen elements to 120 dpi. You can choose a custom setting of up to 500% magnification, or 480 dpi, in the Custom DPI Setting dialog box.



You can choose a magnification of up to 200% from the lists or choose a greater magnification by dragging across the ruler from left to right.

See Also For more information about display settings, refer to *Windows 7 Step by Step* (Microsoft Press, 2009), *Windows Vista Step by Step* (Microsoft Press, 2006), or *Windows XP Step by Step* (Microsoft Press, 2002) by Joan Lambert Preppernau and Joyce Cox.

Adapting Exercise Steps

The screen images shown in the exercises in this book were captured at a screen resolution of 1280×800 , at 100% magnification, and the default text size (96 dpi). If any of your settings are different, the ribbon on your screen might not look the same as the one shown in the book. For example, you might see more or fewer buttons in each of the groups, the buttons you see might be represented by larger or smaller icons than those shown, or the group might be represented by a button that you click to display the group's commands.

When we instruct you to give a command from the ribbon in an exercise, we do it in this format:

• On the **Project** tab, in the **Properties** group, click **Project Information**.

If the command is in a list, we give the instruction in this format:

• On the **View** tab, in the **Data** group, click **Tables** and then click **Cost**.

The first time we instruct you to click a specific button in each exercise, we display an image of the button in the page margin to the left of the exercise step.

If differences between your display settings and ours cause a button on your screen to look different from the one shown in the book, you can easily adapt the steps to locate the command. First, click the specified tab. Then locate the specified group. If a group has been collapsed into a group list or group button, click the list or button to display the group's commands. Finally, look for a button that features the same icon in a larger or smaller size than that shown in the book. If necessary, point to buttons in the group to display their names in ScreenTips.

If you prefer not to have to adapt the steps, set up your screen to match ours while you read and work through the exercises in the book.

Features and Conventions of This Book

This book has been designed to lead you step by step through many of the tasks you're most likely to want to perform in Microsoft Project Professional 2010 or Microsoft Project Standard 2010. If you start at the beginning and work your way through all the exercises, you will gain enough proficiency to be able to create and work with a wide range of Project features. However, each topic is self contained. If you have worked with a previous version of Project, or if you completed all the exercises and later need help remembering how to perform a procedure, the following features of this book will help you locate specific information:

- **Detailed table of contents** Search the listing of the topics and sidebars within each chapter.
- **Chapter thumb tabs** Easily locate the beginning of the chapter you want.
- Topic-specific running heads Within a chapter, quickly locate the topic you want by looking at the running heads at the top of odd-numbered pages.
- **Glossary** Look up the meaning of a word or the definition of a concept.
- **Detailed index** Look up specific tasks and features in the index, which has been carefully crafted with the reader in mind.

You can save time when reading this book by understanding how the *Step by Step* series shows exercise instructions, keys to press, buttons to click, and other information.

Convention	Meaning		
SET UP	This paragraph preceding a step-by-step exercise indicates the practice files that you will use when working through the exercise. It also indicates any requirements that you should attend to or actions that you should take before beginning the exercise.		
CLEAN UP	This paragraph following a step-by-step exercise provides instructions for saving and closing open files or programs before moving on to another topic. It also suggests ways to reverse any changes you made to your computer while working through the exercise.		
1	Numbered steps guide you through hands-on exercises in each		
2	topic, as well as procedures in sidebars and expository text.		
Important	This paragraph points out information that you need to know to complete a procedure.		

Convention	Meaning		
Note	This paragraph describes information that merits special attention.		
See Also	This paragraph directs you to more information about a topic in this book or elsewhere.		
Tip	This paragraph provides a helpful hint or shortcut that makes working through a task easier.		
Ctrl+G	A plus sign (+) between two keys means that you must press those keys at the same time. For example, "Press Ctrl+G" means that you should hold down the Ctrl key while you press the G key.		
	Pictures of buttons appear in the margin the first time the button is used in a chapter.		
Bold	In exercises that begin with SET UP information, bold type displays text that you should type; the names of program elements, such as buttons, commands, windows, and dialog boxes; and files, folders, or text that you interact with in the steps.		
Bold italic	Terms that are defined in the Glossary are formatted this way.		

Using the Practice Files

Before you can complete the exercises in this book, you need to copy the book's practice files to your computer. These practice files, as well as other information, can be downloaded from the book's detail page, located at:

http://go.microsoft.com/fwlink/?Linkid=191765

Display the detail page in your Web browser and follow the instructions for downloading the files.

Important The Microsoft Project 2010 program is not available from this Website. You should purchase and install that program before using this book.

The following table lists the practice files for this book.

Note The same set of practice files works with both Microsoft Project Professional 2010 and Microsoft Project Standard 2010. Differences between the two editions of Project are explained where needed throughout the book.

Chapter	File	
Chapter 1: A Guided Tour of Project	Guided Tour_Start.mpp	
Chapter 2: Creating a Task List	(no initial practice file)	
Chapter 3: Setting Up Resources	Simple Resources_Start.mpp	
Chapter 4: Assigning Resources to Tasks	Simple Assignments_Start.mpp	
Chapter 5: Formatting and Sharing Your Plan	Simple Formatting_Start.mpp	
Chapter 6: Tracking Progress on Tasks	Simple Tracking_Start.mpp	
Chapter 7: Fine-Tuning Task Details	Advanced Tasks A_Start.mpp	
	Advanced Tasks B_Start.mpp	
Chapter 8: Fine-Tuning Resource Details	Advanced Resources_Start.mpp	
Chapter 9: Fine-Tuning Assignment Details	Advanced Assignments A_Start.mpp	
	Advanced Assignments B_Start.mpp	
Chapter 10: Fine-Tuning the Project Plan	Advanced Plan_Start.mpp	
Chapter 11: Organizing Project Details	Advanced Organizing_Start.mpp	
Chapter 12: Tracking Progress on Tasks and	Advanced Tracking A_Start.mpp	
Assignments	Advanced Tracking B_Start.mpp	
	Advanced Tracking C_Start.mpp	
	Advanced Tracking D_Start.mpp	
Chapter 13: Viewing and Reporting Project Status	Reporting Status_Start.mpp	

Chapter	File	
Chapter 14: Getting Your Project Back on Track	Back on Track_Start.mpp	
Chapter 15: Applying Advanced Formatting and Printing	Advanced Formatting_Start.mpp	
Chapter 16: Customizing Project	Customizing A_Start.mpp	
	Customizing B_Start.mpp	
Chapter 17: Sharing Project Information with	Sample Task List.xls	
Other Programs	Sharing_Start.mpp	
Chapter 18: Consolidating Projects and	Consolidating A_Start.mpp	
Resources	Consolidating B_Start.mpp	

Your Companion eBook

The eBook edition of this book allows you to:

- Search the full text
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Getting Help with Project 2010

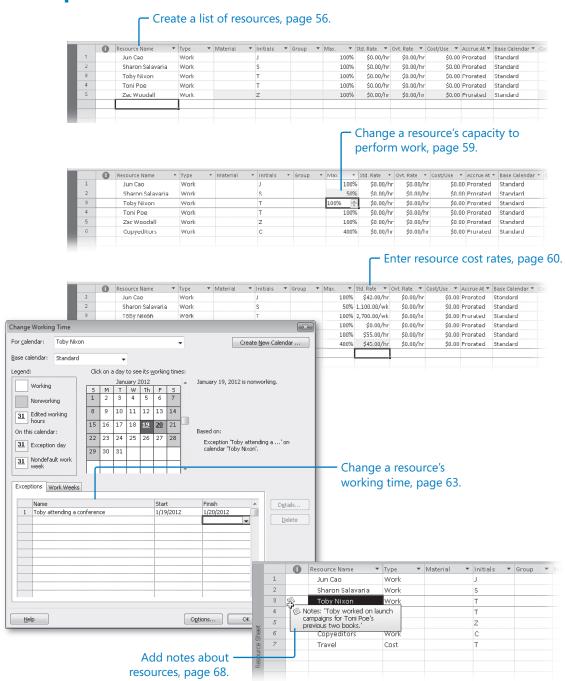
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Chapter at a Glance



3 Setting Up Resources

In this chapter, you will learn how to:

- ✓ Set up basic resource information for the people who work on projects.
- ✓ Adjust the maximum capacity of a resource to do work.
- Set up cost information for work resources.
- Change a resource's availability for work.
- Enter cost resource information for financial tracking.
- Record additional information about a resource in a note.

Microsoft Project 2010 supports three types of *resources*. These are work resources, as well as two special-purpose resources: cost and material. Briefly, here is how to think about the three resource types:

- Work resources include the people and equipment needed to complete the tasks in a project.
- Cost resources represent a financial cost associated with a task that you need to account for. Examples include categories of expenses like travel, entertainment, and so on.
- Material resources are consumables that you use up as the project proceeds. For example, a construction project might need to track steel or concrete as it is used throughout the project.

In this chapter you will set up work and cost resources. Material resources are described in Chapter 8, "Fine-Tuning Resource Details."

In this chapter, you will set up the work and cost resources that you need to complete the new book launch at Lucerne Publishing. Effective resource management is one of the most powerful advantages of using Project instead of task-focused planning tools, such as paper-based organizers. You do not need to set up resources and assign them

to tasks in Project; however, without this information, you might be less effective in managing your schedule. Setting up resource information in Project takes a little effort, but the time is well spent if your project is primarily driven by time or cost constraints (and nearly all projects are driven by one, if not both, of these factors).

Practice Files Before you can complete the exercises in this chapter, you need to copy the book's practice files to your computer. A complete list of practice files is provided in "Using the Practice Files" at the beginning of this book. For each exercise that has a practice file, simply browse to where you saved the book's practice file folder.

Important If you are running Project Professional, you may need to make a one-time setting change. This helps ensure that the practice files you work with in this chapter do not affect your Project Server data. For more information, see Appendix C, "Using the Practice Files if Connected to Project Server."

Setting Up Work Resources

Work resources are the people and equipment that do the work of the project. Project focuses on two aspects of work resources: their availability and their costs. Availability determines when specific resources can work on tasks and how much work they can perform, and costs refer to how much money will be required to pay for those resources.

Some examples of work resources are listed in this table.

Work Resource	Example		
Individual people identified by name.	Jun Cao; Zac Woodall		
Individual people identified by job title or function.	Publisher; Contract specialist		
Groups of people who have common skills. (When assigning such interchangeable resources to a task, you might not be concerned about who the individual resource is so long as they have the right skills.)	Copyeditors; Typesetters		
Equipment.	Offset lithography press		

Equipment Resource Considerations

In Project, you set up people and equipment resources in exactly the same way; they are both examples of work resources. However, you should be aware of important differences in how you can schedule these two work resources. Most people resources have a working day of typically 8 and usually no more than 12 hours, but equipment resources might have much more varied capacities for work, ranging from short durations (followed by maintenance) to around the clock without interruption. Moreover, people resources might be flexible in the tasks they can perform, but equipment resources tend to be more specialized. For example, a content editor for a book project might also act as a copyeditor in a pinch, but a desktop copy machine cannot replace a printing press.

You do not need to track every piece of equipment that will be used in your project, but you might want to set up equipment resources when

- Multiple teams or people might need a piece of equipment to accomplish different tasks simultaneously, and the equipment might be overbooked.
- You want to plan and track costs associated with the equipment.

Consider these issues if your projects involve equipment resources.

Project can help you make smarter decisions about managing work resources and monitoring financial costs.

In this exercise, you enter the names of several people resources.



SET UP Start Project if it's not already running.

You need the Simple Resources_Start project plan located in your Chapter03 practice file folder to complete this exercise. Open the Simple Resources_Start project plan, and then follow these steps.

- On the File tab, click Save As.
 Project displays the Save As dialog box.
- 2. In the File name box, type Simple Resources, and then click Save.

Tip You can instruct Project to automatically save the active project plan at predefined intervals, such as every 10 minutes. On the File tab, click Options. In the Project Options dialog box, click Save, select the Auto Save Every check box, and then specify the time interval you want.

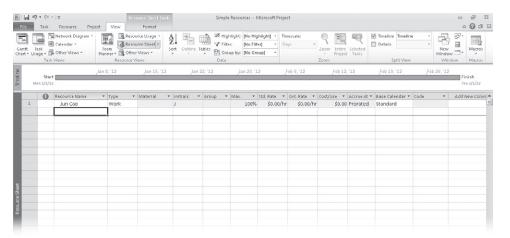


3. On the View tab, in the Resource Views group, click Resource Sheet.

You will use the Resource Sheet view to enter the initial list of resources for the new book launch project.

- **4.** Click the cell directly below the **Resource Name** column heading.
- 5. Type Jun Cao, and press the Enter key.

Project creates a new resource.



6. On the next empty rows in the **Resource Name** column, enter the following names:

Sharon Salavaria

Toby Nixon

Toni Poe

3

Zac Woodall

Resource Name

Jun Cao

Toby Nixon

Zac Woodall

Toni Poe

Sharon Salavaria

▼ Type

Work

Work

Work

Work

Wurk

When you create a new work resource, Project assigns it 100% Max. Units by default. ▼ Initials ▼ Group ▼ Max. ▼ Std. Rate ▼ Ovt. Rate ▼ Cost/Use ▼ Accrue At ▼ Base Calendar ▼ Co 100% \$0.00/hr \$0.00/hr \$0.00 Prorated Standard \$0.00/hr \$0.00/hr \$0.00 Prorated Standard

These are all individual people. You can also have a resource that represents multiple people. You'll enter such a resource next.

In the Resource Name field, below the last resource, type Copyeditors, and then press Enter.

What Is the Best Way to Enter Resource Names?

In Project, work resource names can refer to specific people (Sharon Salavaria) or to specific job titles, such as Publisher or Contract Specialist. Use whatever naming convention makes the most sense to you and to those who will see your project plan information. The important questions are: who will see these resource names, and how will they identify the resources? The resource names that you choose will appear both in Project and in any resource information shared from Project. For example, in the default Gantt Chart view, the name of the resource appears next to the bars of the tasks to which that resource is assigned.

A resource might refer to somebody who is already on staff or to a position to be filled later. If you have not yet filled all the resource positions required, you might not have real people's names to enter. In that case, use descriptive placeholder names or job titles when setting up resources in Project.

Entering Resource Capacity

The Max. Units field represents the maximum capacity of a resource to accomplish any task. Specifying that a resource has 100% *maximum units* means that 100 percent of that resource's working time is available to work on assigned tasks in the project plan. Project will alert you if you assign the resource to more tasks than they can accomplish at 100% maximum units (in other words, if the resource becomes *overallocated*). 100% is the default Max. Units value for new resources.

For a resource that represents not a specific person, but a category of interchangeable people with a common skill set, you can enter a larger Max. Units value to indicate the number of available people. Entering a Max. Units setting such as 800% for such a resource means that you can expect that eight individual people who all belong to that resource category will be available to work full time every workday.

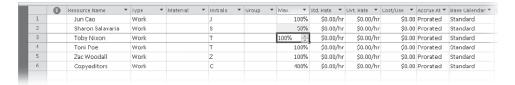
In this exercise, you adjust the Max. Units values to indicate one resource that represents multiple people, and another resource whose capacity to work in this project plan is less than full time.

- **1.** Click the **Max. Units** field for the *Copyeditors* resource.
- **2.** Type or select **400%**, and then press Enter.

Tip When you click a numeric value in a field like Max. Units, up and down arrows appear. You can click these to display the number you want, or simply type the number in the field.

Next you'll update the Max. Units value for Sharon Salavaria to indicate that she works half time.

3. Click the **Max. Units** field for *Sharon Salavaria*, type or select **50%**, and then press Enter.



Tip If you prefer, you can enter maximum units as partial or whole numbers (.5, 1, 4) rather than as percentages (50%, 100%, 400%). To use this format, on the File tab, click Options. In the Project Options dialog box, click the Schedule tab. In the Show assignment units as a box, click Decimal.

With these changes to Max. Units, Project will identify these resources as being overallocated when their assigned work exceeds their capacities. You will work with resource overallocation in Chapters 8 and 9.

Entering Resource Pay Rates

Almost all projects have some financial aspect, and cost limits the scope of many projects. Tracking and managing cost information allows the project manager to answer such important questions as the following:

- What is the expected total cost of the project based on our task durations and resource assignments?
- Are we using expensive resources to do work that less expensive resources could do?
- How much money will a specific type of resource or task cost over the life of the project?
- Are we spending money at a rate that we can sustain for the planned duration of the project?

You can enter standard rates and costs per use for work and material resources, as well as overtime rates for work resources. Cost resources do not use pay rates and are described later in this chapter.

When a work resource has a standard pay rate entered and is assigned to a task, Project calculates the cost of the assignment. Project does so by multiplying the assignment's work value by the resource's pay rate—both using a common increment of time (such as hours). You can then see cost per resource, cost per assignment, and cost per task (as well as costs rolled up to summary tasks and the entire project plan). You will assign resources to tasks in Chapter 4, "Assigning Resources to Tasks."

Project handles overtime expenses differently. Project will apply the overtime pay rate only when you specifically record overtime hours for an assignment. You will find more information about working with overtime in Chapter 14, "Getting Your Project Back On Track." Project does not automatically calculate overtime hours and associated costs because there's too great a chance that it would apply overtime when you did not intend it. In the new book launch project plan, Jun Cao's working schedule provides a good example. In the next exercise, you will set up a working schedule of 10 hours per day, four days per week for Jun. This is still a regular 40-hour workweek, even though 2 hours per day could be mistaken for overtime with the normal assumption of an 8-hour day.

In addition to or instead of cost rates, a resource can include a set fee that Project accrues to each task to which the resource is assigned. This is called a cost per use. Unlike cost rates, the cost per use does not vary with the task's duration or amount of work the resource performs on the task. You specify the cost per use in the Cost/Use field in the Resource Sheet view.

In this exercise, you enter standard and overtime pay rates for work resource.

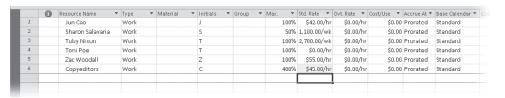
- 1. In the Resource Sheet, click the Std. Rate field for Jun Cao.
- 2. Type 42 and press Enter.

 Jun's standard hourly rate of \$42 appears in the Std. Rate column. Note that the default standard rate is hourly, so you did not need to specify cost per hour.
- **3.** In the **Std. Rate** field for *Sharon Salavaria*, type **1100/w** and press Enter. Sharon's weekly pay rate appears in the Std. Rate column.

		0	Resource Name	Type •	Material *	Initials 🔻	Group ▼	Max. ▼	Std. Rate ▼	Ovt. Rate 🔻	Cost/Use ▼	Accrue At 🔻	Base Calendar ▼
	1		Jun Cao	Work		J		100%	\$42.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	2		Sharon Salavaria	Work		S		50%	1,100.00/wk	\$0.00/hr	\$0.00	Prorated	Standard
	3		Toby Nixon	Work		Т		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	4		Toni Poe	Work		T		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	5		Zac Woodall	Work		z		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	б		Copyeditors	Work		С		400%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
М													

4. Enter the following standard pay rates for the given resources:

Resource Name	Standard Rate		
Toby Nixon	2700/w		
Toni Poe	Leave at 0 (Toni is the book author and you're not tracking her rate-based costs in this project plan)		
Zac Woodall	55		
Copyeditors	45		



As you can see, you can enter pay rates with a variety of time bases—hourly (the default), daily, weekly, and so on. In fact, you can enter pay rates in all the increments of time for which you can enter task durations—from minutes to years.

Next, you will enter an overtime pay rate for one of the resources.

5. In the **Overtime Rate** field for *Jun Cao*, type **67**, and then press Enter.

Tip If you work with a large number of resources who have the same standard or overtime pay rates, you can set up Project to apply these pay rates automatically whenever you add a new resource. You do this in the Advanced tab of the Project Options dialog box, which is accessible from the File tab.

Project Management Focus: Getting Resource Cost Information

Work resources can account for the majority of costs in many projects. To take full advantage of the extensive cost management features in Project, the project manager would ideally know the costs associated with each work resource. For people resources, it might be difficult to obtain such information. In many organizations, only senior management and human resource specialists know the pay rates of all resources working on a project, and they might consider this information confidential. Depending on your organizational policies and project priorities, you might not be able to track resource pay rates. If you cannot track resource cost information and your project is constrained by cost, your effectiveness as a project manager might be reduced, and the sponsors of your projects should understand this limitation. If you do include cost details in your project plan and this is considered sensitive information, consider requiring a password to open such project plans. To set a password, click the File tab, and then click Save As. In the Save As dialog box, click Tools and then click General Options.

Adjusting Working Time for Individual Resources

Project uses different types of calendars for different purposes. In Chapter 2, "Creating a Task List," you modified the *project calendar* to specify nonworking days for the entire project. In this exercise, you will focus on the resource calendar. A *resource calendar* controls the working and nonworking times of an individual resource. Project uses resource calendars to determine when work for a specific resource can be scheduled. Resource calendars apply only to work resources (people and equipment), not to material or cost resources.

When you initially create resources in a project plan, Project creates a resource calendar for each work resource. The initial working time settings for resource calendars exactly match those of the project calendar, which by default is the *Standard base calendar*. The Standard base calendar is built into Project and accommodates a default work schedule from 8 A.M. to 5 P.M., Monday through Friday, with an hour off for lunch each day. If all the working times of your resources match the working time of the project calendar, you do not need to edit any resource calendars. However, chances are that some of your resources will need exceptions to the working time in the project calendar—such as

- A flex-time work schedule
- Vacation time
- Other times when a resource is not available to work on the project, such as time spent training or attending a conference

Tip If you have a resource who is available to work on your project only part time, you might be tempted to set the working time of the resource in your project to reflect a part-time schedule, such as 8 A.M. to 12 P.M. daily. However, a better approach would be to adjust the availability of the resource as recorded in the Max. Units field to 50%, as you did for the previous exercise for the resource named Sharon Salavaria. Changing the unit availability of the resource keeps the focus on the capacity of the resource to work on the project rather than on the specific times of the day when that work might occur. You set the maximum units for a resource in the Resource Sheet view.

Changes that you make to the project calendar are reflected automatically in resource calendars derived from the same project calendar. For example, in Chapter 2, you specified a nonworking day for a staff morale event, and Project rescheduled all work to skip that day.

In this exercise, you specify the working and nonworking times for individual work resources.



On the Project tab, in the Properties group, click Change Working Time.
 The Change Working Time dialog box appears.

2. In the **For calendar** box, click *Toby Nixon*.

Toby Nixon's resource calendar appears in the Change Working Time dialog box. Toby has told you he will not be available to work on Thursday and Friday, January 19 and 20, because he plans to attend a book industry conference.

On the Exceptions tab in the Change Working Time dialog box, click in the first row directly below the Name column heading and type Toby attending a conference.

The description for the calendar exception is a handy reminder for you and others who may view the project plan later.

- 4. Click in the **Start** field and type or select 1/19/12.
- 5. Click in the **Finish** field, type or select **1/20/12**, and then press the Enter key.

Tip Alternatively, in the calendar you can first select the date or date range for which you want to create an exception, and then enter the exception name. Project will insert the Start and Finish dates automatically based on your selection, and then press the Enter key.

Every work resource calendar is based on the project calendar;

the default project calendar is the Standard base calendar. Change Working Time × For galendar: Toby Nixon Create New Calendar ... Base calendar: Standard Legend: Click on a day to see its working times: January 2012 January 19, 2012 is nonworking. Working S M T W Th F S 3 4 5 Nonworking 8 9 10 11 12 13 14 31 Edited working hours 15 16 17 18 **19 20** 21 On this calendar: Based on: 22 23 24 25 26 27 28 Exception 'Toby attending a ...' on 31 Exception day calendar 'Toby Nixon'. 29 30 31 31 Nondefault work Exceptions Work Weeks Start Details... 1 Toby attending a conference 1/19/2012 1/20/2012 Delete Help Options... Cancel

Project will not schedule work for Toby on these dates.

Tip To set up a partial working time exception for a resource, such as a portion of a day when a resource cannot work, click Details. In the Details dialog box, you can also create recurring exceptions to the resource's availability.

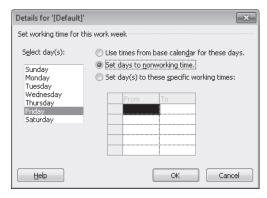
To conclude this exercise, you will set up a "4 by 10" work schedule (that is, 4 days per week, 10 hours per day) for a resource.

- 6. In the For box, click Jun Cao.
- **7.** When prompted to save the resource calendar changes that you made for Toby Nixon, click **Yes**.
- **8.** Click the **Work Weeks** tab in the **Change Working Time** dialog box.
- Click [Default] directly under the Name column heading, and then click Details.
 Next, you will modify the default working week days and times for Jun Cao.
- Under Selected Day(s), select Monday through Thursday.
 These are the weekdays Jun can normally work.
- 11. Click Set day(s) to these specific working times.

Next you'll modify Jun's regular daily schedule for the days she normally works.

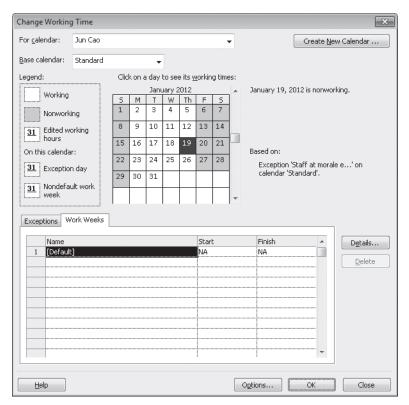
- **12.** In row 2, click **5:00 PM** and replace it with **7:00 PM**, and then press Enter. Finally, you will mark Friday as a nonworking day for Jun.
- 13. Click Friday.
- 14. Click Set days to nonworking time.

Now Project can schedule work for Jun as late as 7 P.M. every Monday through Thursday, but it will not schedule work for her on Fridays.



15. Click **OK** to close the **Details** dialog box.

You can see in the calendar in the Change Working Time dialog box that Fridays (as well as Saturdays and Sundays) are marked as nonworking days for Jun Cao.



16. Click **OK** to close the **Change Working Time** dialog box.

Because you have not yet assigned these resources to tasks, you don't see the scheduling effect of their nonworking time settings. You will observe this in Chapter 4.

Tip If you find that you must edit several resource calendars in a similar way (to handle a night shift, for example), it may be easier to assign a different base calendar to a resource or collection of resources. This is more efficient than editing individual calendars, and it allows you to make project-wide adjustments to a single base calendar if needed. For example, if your project includes a day shift and a night shift, you can apply the Night Shift base calendar to those resources who work the night shift. You change a base calendar in the Change Working Time dialog box. For collections of resources, you can select a specific base calendar directly in the Base Calendar column on the Entry table in the Resource Sheet view.

Setting Up Cost Resources

Another type of resource that you can use in Project is the cost resource. You can use a cost resource to represent a financial cost associated with a task in a project. While work resources (people and equipment) can have associated costs (hourly rates and fixed costs per assignment), the sole purpose of a cost resource is to associate a particular type of cost with one or more tasks. Common types of cost resources might include categories of expenses you'd want to track on a project for accounting or financial reporting purposes, such as travel, entertainment, or training.

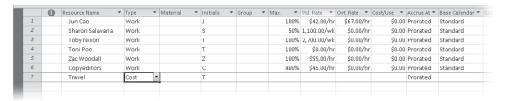
Cost resources do no work and have no effect on the scheduling of a task. The Max. Units Standard and Overtime pay rates and Cost/Use fields do not apply to cost resources. After you assign a cost resource to a task and specify the cost amount per task, you can then see the cumulative costs for that type of cost resource, such as total travel costs in a project.

The way in which cost resources generate cost values differs from that of work resources. When you assign a work resource to a task, the work resource can generate a cost based on a pay rate (such at \$40 per hour for the length of the assignment), a flat per-use cost (such as \$100 per assignment), or both. You set up such pay rates and cost per use amounts once for the work resource, as you did in the section "Entering Resource Pay Rates" earlier in this chapter. However, you enter the cost value of a cost resource only when you assign it to a task. You can do so in the Cost field of the Assign Resources dialog box or in the Cost field of the Task Form with the Cost detail shown.

Lucerne Publishing maintains a profit and loss (P&L) sheet for every book it publishes. Travel is a major expense incurred in a book launch.

In this exercise, you'll set up a cost resource.

- 1. In the **Resource Sheet**, click the next empty cell in the **Resource Name** column.
- 2. Type **Travel** and press the Tab key.
- 3. In the **Type** field, click **Cost**.



You will assign a cost resource in Chapter 4.

Documenting Resources

You might recall from Chapter 2 that you can record any additional information about a task, resource, or assignment in a *note*. For example, if a resource has flexible skills that can help the project, it is a good idea to record this in a note. In that way, the note resides in the project plan and can be easily viewed or printed.

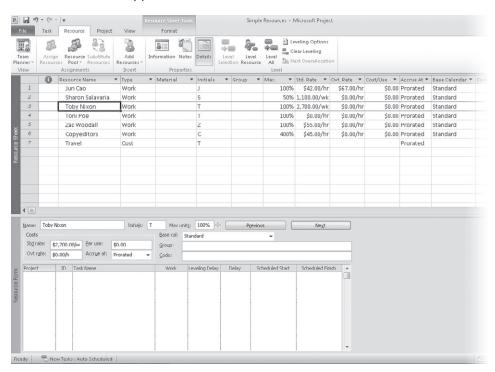
In this exercise, you enter resource notes relevant to the new book launch project. In Chapter 2, you entered a task note via the Notes button on the Task tab of the Properties group. You can enter resource notes in a similar way (via the Notes button on the Resource tab of the Properties group) but in this exercise, you'll use a different method. You'll use the Resource form, which allows you to view and edit notes for multiple resources more quickly.

In this exercise, you'll enter notes in the Resource Form.

- 1. In the **Resource Name** column, click *Toby Nixon*.
- 2. On the **Resource** tab, in the **Properties** group, click the **Details** button.

Tip You can also click Details, Resource Form on the View tab of the Split View group.

The Resource Form appears below the Resource Sheet view.





In this type of split view, details about the selected item in the upper view (a resource, in this case) appear in the lower view. You can quickly change the selected resource name in the upper view by clicking directly on a name, using the up arrow or down arrow keys, or by clicking Previous or Next in the Resource Form.

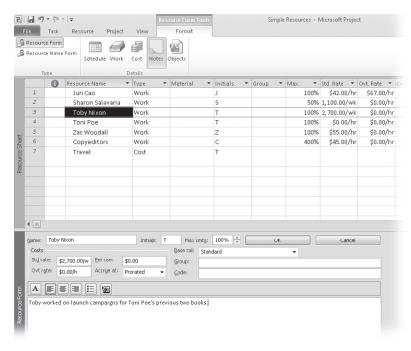
The Resource Form can display one of several details; initially it displays the Schedule details. Next you'll switch it to display the Notes details.

- 3. Click anywhere in the Resource Form.
- On the Format tab, in the Details group, click Notes.

Tip You can also right-click in the gray background area of the Resource Form and, in the shortcut menu that appears, click Notes.

The Notes details appear in the Resource Form.

5. In the Notes box, type Toby worked on launch campaigns for Toni Poe's previous two books.



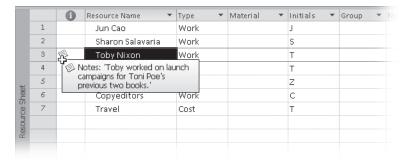
Notice that as soon as you started typing the note, the Previous and Next buttons changed to OK and Cancel.

6. Click OK.

In the Resource Sheet view, a note icon appears in the Indicators column.



7. Point to the note icon that appears next to Toby's name in the Resource Sheet.



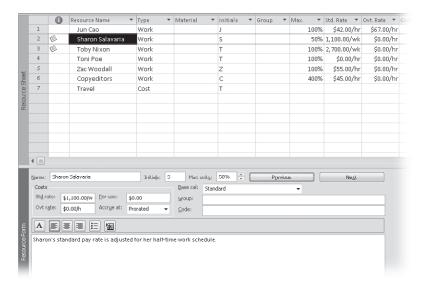
The note appears in a ScreenTip. For notes that are too long to appear in a ScreenTip, you can double-click the note icon to display the full text of the note. You can also see more of long notes in the Resource Form or in the Resource Information dialog box.

To conclude this exercise, you'll add a note for one more resource.

8. In the **Resource Form**, click **Previous** to shift the focus to Sharon Salavaria and display her details.

Tip You can also click on Sharon's name in the Resource Sheet view above the Resource Form.

9. In the Notes box, type Sharon's standard pay rate is adjusted for her half-time work schedule. Then click OK.



Finally, you'll close the Resource Form.

10. On the **Resource** tab, in the **Properties** group, click the **Details** button.

The Resource Form is closed, leaving the Resource Sheet displayed.

In this exercise, you've entered notes for some resources. This information is unique to those resources.



Key Points

- Recording resource information in your project plans helps you better control who
 does what work when and at what costs.
- Work resources (people and equipment) perform the work in a project.
- Cost resources account for the types of expenses that you may wish to track across a project.

Index

Symbols and Numbers	Assignment group (Format tab)
Symbols and Numbers	Information, 191, 193, 197 Notes button, 195
100% Complete command (Task tab), 130	Assignment Information dialog box
50% Complete command (Task tab), 131	accessing, 191
	applying contours, 193
•	applying contours, 193 applying different cost rates, 197
Δ	
Anti-unallist 02, 07	delaying start of assignments, 191
Actions list, 83–87	resolving resource overallocations, 217 Units field, 217
accessing, 83, 161	<i>,</i>
changing assignment values, 162	updating actual work values, 268 assignment notes
increasing task durations, 85	defined, 50
active view	pasting graphic images, 372
overview, 6	resource notes and, 195
sorting considerations, 234	Assignment Reports dialog box, 117
View label, 6	assignment units, 158–59
View shortcuts, 6	assignments. See resource assignments
Zoom slider, 6	Assignments group (Resource tab)
actual costs, 227, 269 actual values for tasks	Assign Resources, 11, 75, 169, 198,
collecting from resources, 273	304, 406, 417
timephased, 258, 269–73	Resource Pool, 402, 415–16, 418
tracking progress, 125, 132–36, 258, 263–68	Auto Schedule command (Task tab), 43–45
Add Tasks To Timeline dialog box, 101	AutoFilters
Add To Timeline command (Task tab), 103	accessing, 235
Advanced Plan Properties dialog box, 228	applying, 243–45
ALAP constraint type, 148	functionality, 243
All Programs command (Start menu), 108, 384	troubleshooting problems and, 308
All Subtasks command (View tab), 174, 288, 421	,
allocations, resource. See resource allocations	
ASAP constraint type, 148, 163	В
Assign Resources dialog box	D
adjusting resource assignments, 83	Background Color button, 98, 327
assigning cost resources, 89	Backstage view
assigning material resources, 198	displaying, 8, 52
assigning resources to recurring tasks, 169–70	Help pane, 313
assigning work resources, 75–76, 78–80, 89	managing files, 7–10
closing considerations, 15	Print Preview option, 110, 335, 341
depicted, 11	project summary tasks, 96
linking project plans, 415	setting options, 7–10
removing work resources, 84	Bar Styles dialog box
Replace button, 217	accessing, 14, 320
resolving resource overallocations, 217	formatting Calendar view, 332–33
troubleshooting problems, 304–305, 310	formatting Gantt bars, 95, 319–23
Units field, 217	Bar Styles group (Format tab)
updating assignments in sharer	Critical Tasks check box, 172
plans, 406–407	Format, 99
updating resource pool, 417–18	Slack check box, 172

base calendars	constraints
creating, 155	categories of, 147
defined, 46	entering deadline dates, 163–65
Standard, 63, 155	removing, 152
updating working times in resource pools, 411–13	setting for tasks, 147–52
baseline costs, 227	types of, 148
baseline plans	consumption rates, 199
baseline costs, 227	contours, applying to resource assignments, 192–96
cautions overwriting values, 261	Copy command (Task tab), 374, 376
for projects, 124–27	Copy group (Format tab), 108
purpose, 258	Copy Picture dialog box
saving interim plans, 262–63 updating, 258–62	copying views, 107 recording macros, 354
1 5	<u> </u>
bottom-up planning, 36	reporting project status, 286 Copy Timeline command (Format tab), 108
Box command, 331	
Box Styles dialog box, 328, 330–31	copying
Browse dialog box, 354	data to other programs, 372–76
Budget Cost report, 289	GIF image files, 107
	views, 106–09 cost rates, changing, 196–97
	cost rates, changing, 190–97
	accruing to project costs, 166
Calendar tab (Tools menu), 170	assigning to tasks, 88–90
Calendar view	costs incurred with, 88
filtering support, 243	defined, 55
formatting, 331–33	getting information, 62
functionality, 13	setting up, 67
calendars. See specific types of calendars	Cost table
callouts, displaying tasks as, 103	accessing, 133, 167, 196, 228
Change Working Time dialog box	copying project data, 374
Create New Calendar option, 155	entering actual costs manually, 269
creating working time exception, 46–48	examining resource costs, 290–92
Exceptions tab, 64	examining task costs, 287–88
specifying working/nonworking times, 63	reporting project cost variance, 295
updating resource information, 408–10	troubleshooting problems, 307, 312
updating working times, 411–13	costs, project. See project costs
Work Weeks tab, 65, 156	Create New Base Calendar dialog box, 155
Clipboard group (Task tab)	critical path
Copy, 374, 376	defined, 170, 228
Copy Picture dialog box, 107, 286, 354	highlighting, 302
functionality, 11	project finish date and, 228
Close command (File tab), 8	viewing, 170–72
colors	Critical Task filter, 243
adjusting for Gantt bars, 96	Ctrl+F key combination, 352
adjusting for milestones, 96, 99	Ctrl+G key combination, 160, 302, 352
changing for task bars, 327	current costs, 227
formatting Timeline view, 327	Current Selection group (Format tab), 103
predefined styles, 14, 96–98	Custom AutoFilter dialog box, 244
Columns group (Format tab)	Custom Fields dialog box, 293–95
Custom Fields, 293	custom fields, creating, 251
Insert Column, 250	Custom Reports dialog box, 339, 341
columns, manipulating in tables, 250	Custom tab, 367
commands, defined, 6	customizing
confirmation messages, 355	filters, 243, 245–46
consolidating project plans, 420–23	Gantt Chart view, 94–101

Max. Units values, 181–82 Quick Access toolbar, 362–67 reports, 115–20 ribbon interface, 362–67 tables, 248–51 Timeline view, 101–103 views, 251–54, 346	Drawing command (Format tab) accessing, 105 functionality, 104 Properties, 105 Text Box, 105 Drawings group (Format tab), 105–106 durations. See also actual values for tasks abbreviating, 30 accurate, 33
Data group (View tab). See also Filter button (View tab); Tables command (View tab) Group By button, 238, 240 Highlight, 302, 306 Outline, 173–74, 201, 214, 288, 421 Sort, 12, 236, 292 data maps, 377 Data Template Definition dialog box, 329–30 Data Templates dialog box, 329 deadline dates, 163–65, 305 dedicated resource pools, 404	assigning overtime hours, 306 checking, 49–50 critical path and, 170 entering, 30–33 in project triangle model, 299, 433 increasing for tasks, 85 managing project constraints, 435–37 recurring tasks, 170 summary tasks, 35, 173 task scheduling formula, 81, 158 troubleshooting problems, 300–306
Define Group Interval dialog box, 241	E
Define New View dialog box, 252	E
deliverables	Editing group (Task tab), 96, 107, 145-46
defined, 431	editing macros, 356-62
defining tasks for, 29	e-mail messages, copying views for, 106
Detail Gantt view	Enterprise Project Management (EPM),
accessing, 171	4, 444–46
free slack in, 172	Entire Project command (View tab)
Gantt Chart view and, 318	consolidating project plans, 422
viewing critical path, 171	scheduling summary tasks, 173
viewing tasks with variance, 281	viewing critical path, 171, 226
Details button (Resource tab), 68, 71	entry bar (formula bar), 7
Details command (View tab)	Entry table
accessing Task Form, 77	accessing, 248
functionality, 19	as default, 235
viewing assignments in resource pools, 405	copying project data, 373
Details dialog box, 156 Details group (Format tab)	modifying, 248 task ID numbers, 38
Actual Work, 265	viewing project tasks, 340
Add Details, 265, 293	EPM. See Enterprise Project Management (EPM)
Baseline Work, 290	equipment resources, setting up, 57–58
displaying work values, 216	Excel worksheets. See Microsoft Excel
Notes, 69	Existing Tasks command (Format tab), 101
Remaining Availability check box, 201	Exit command (File tab), 9
Work check box, 201, 307	export maps, 377, 382–83
Details Styles dialog box, 293	Export Wizard, 383–84
Display As Callout command	Export Wizurd, 505 01
(Format tab), 103	
Document Export Options dialog box, 339	C
documentation	F
copying views for, 106	FF task relationship. See finish-to-finish (FF)
for project plans, 50–53	task relationship
for tasks, 50–53	fields, creating custom, 251

file formats	float (slack), 171
from previous versions, 386	Fluent user interface. See ribbon interface
legacy files, 383	FNET constraint type. See Finish No Earlier Than
opening other, 377–82	(FNET) constraint type
saving to other, 382–86	FNLT constraint type. See Finish No Later Than
task lists in other, 377	(FNLT) constraint type
File tab. See also Project Options dialog box	Font Color button, 327
Close, 8	Font group (Format tab)
displaying Backstage view, 8, 52	Background Color button, 327
Exit, 9	Font Color button, 327
Help, 9	Italic, 326
Info, 8, 348	Font group (Task tab), 11
New, 7–8, 25, 400	Format Bar dialog box, 99
Open, 7–9, 400	Format Bar Styles button (Format tab), 14–15
Print, 8, 110	Format Drawing dialog box, 105
Recent, 8	Format group (Format tab)
Save, 7–8	Bar Styles, 332
Save & Send, 8, 338	Box Styles, 328
Save As, 8, 10, 95, 286	Gridlines, 100, 323
files	Layout, 154, 324
managing, 7–10	Text Styles button, 324
opening, 9	Format tab. See also Details group (Format tab);
Filter button (View tab)	Format group (Format tab)
Clear Filter, 284, 289	Assignment group, 191, 193, 195, 197
Display AutoFilter, 235	Bar Styles group, 99, 172
functionality, 243, 285	Columns group, 250, 293
Incomplete Tasks, 312	Current Selection group, 103
Late Tasks, 281	Drawings group, 105
More Filters dialog box, 245, 283, 285, 288	Font group, 326–27
Slipped/Late Progress, 281	functionality, 11
Slipping Tasks, 281	Gantt Chart Style group, 14, 96
Filter Definition dialog box, 245–46	Insert group, 101
filter indicator, 245	label changes, 17
filtering	Show/Hide group, 95, 422
for delayed/slipping tasks, 281	Text group, 324–25
global templates and, 346	formatting
project details, 242–48	Calendar view, 331–33
visual reports, 387	Gantt Chart view, 95–101, 318–24
finish date, project, 228, 302	Network Diagram view, 327–31
Finish No Earlier Than (FNET) constraint type, 148	task names visually, 98–100
Finish No Later Than (FNLT) constraint type, 148	Timeline view, 324–27
finish-to-finish (FF) task relationship, 38, 142	Tracking Gantt view, 318–23
finish-to-start (FS) task relationship, 38, 142	formula bar (entry bar), 7
fixed consumption rates, 199	Formula dialog box, 294
fixed costs	free slack, 171-72
assigning to tasks, 167	FS task relationship. See finish-to-start (FS)
defined, 166	task relationship
determining accrual methods, 166	•
examples of, 166	
fixed-duration task type, 158, 194	
fixed-unit task type	U
as default, 158	Gantt bars
assigning material resources, 198	attaching text boxes to, 106
defined, 87	customizing Gantt Chart view, 94–101
fixed-work task type, 158	defined, 93
	•

for recurring tasks, 169 for summary tasks, 174 identifying task slippage, 283–84 nonworking time and, 131 scrolling to tasks, 96 Gantt Chart Style group (Format tab) Format Bar Styles button, 14–15 More button, 14, 96 Gantt Chart view accessing, 127, 168, 172 adjusting Schedule table, 172	global templates defined, 346 elements supported, 346–47 project plans and, 346–47 storing macros, 352 Go To command/dialog box adding to Quick Access toolbar, 363 shortcut keys and, 160, 302, 352 Gridlines command (Format tab), 100, 323 Group Definition dialog box, 240–41 grouping project details, 238–42 groups (ribbon interface), 6, 346
as default view, 94 assigning material resources, 198 assigning work resources, 77, 80–81 changing task default settings, 86 changing timescale, 104 components, 94 copying, 106–109 copying project data, 373 creating project dependencies, 424 customizing, 94–101 deadline indicators, 164 depicted, 19 drawing considerations, 104–106 filtering project details, 243–46 formatting, 95–101, 318–24 Gantt bars, 93 highlighting critical path, 302 orange vertical line, 26 overview, 15, 318 pan and zoom controls, 104 pasting graphic images, 372 Print Preview option, 110	Help command (File tab), 9 Hide Subtasks command (View tab), 201, 214 highlighting critical path, 302 defined, 243 HTML. See Hypertext Markup Language (HTML) hyperlinks to tasks, 51 Hypertext Markup Language (HTML), 372 import maps, 377, 383 Import Wizard, 378–81 Inactivate command (Task tab), 176, 313 Indent Task command (Task tab), 36–37 Info command (File tab), 8, 348 Insert Column command (Format tab), 250
printing, 109–15 printing options, 334–39 project summary tasks, 95 recording macros, 353 rescheduling incomplete work, 275 ScreenTips in, 214, 260 scrolling, 104 sharing custom elements, 348 splitting tasks, 196 task relationships, 38, 40 task scheduling and, 27 troubleshooting problems, 306, 309–310 updating assignments in sharer plans, 406	Insert group (Format tab), 101 Insert group (Project tab), 421 Insert group (Task tab) Milestone, 34 Summary, 37 Task button, 168 Insert Hyperlink dialog box, 51 Insert Project dialog box, 421 interim plans, saving, 262
viewing project tasks, 340 viewing resource names, 59 Gantt Chart with Timeline view, 15, 94, 342 GIF image files copying, 107 editing macros, 356, 360 macro names, 352 recording macros, 355	Late/Overbudget Tasks Assigned To filter, 289 Late Tasks filter, 281 Layout button (Format tab), 154, 324 lead time, 142–44 legacy files, 383 Level group (Resource tab), 223 Level Resources dialog box, 220

Leveling Gantt view, 226, 318	Microsoft Project Document Object, 372
leveling, resource. See resource leveling	Microsoft Project Server, 443–44
Link Tasks command (Task tab), 39–40, 45	Microsoft Project User Group (MPUG), 440
linking drawn objects, 104	Microsoft SharePoint, synchronizing task lists, 391–95
project plans to resource pools, 403, 413–15	Microsoft Visual Basic for Applications (VBA),
tasks, 37–42	351, 356–62
tasks between projects, 423–28	Microsoft Word, 372–76
	Milestone command (Task tab), 34
	milestones
N /I	adding to Timeline view, 102–103
IVI	adjusting colors, 96, 99
macros	defined, 34
editing, 356–62	entering, 34
naming conventions, 352	formatting indicator, 99
recording, 351–56	on Gantt charts, 93
security considerations, 355	marking tasks as, 35
storing, 352	mini-toolbars, 7, 98
Macros dialog box, 355, 357, 360	Mode command (Task tab), 45
Macros group (View tab) Macros dialog box, 355, 357, 360	More button (Format tab), 14, 96
Record Macro dialog box, 357, 360	More Filters dialog box Cost Overbudget, 288
Stop Recording, 354	functionality, 245, 285
maps, import/export, 377, 382–83	Late/Overbudget Tasks Assigned To, 289
manually scheduling tasks, 30–34	Slipping Tasks, 284
Mark On Track button (Task tab), 134	More Groups dialog box, 240
master projects, defined, 420	More Tables dialog box, 248–50
material resources	More Views dialog box, 226, 252
assigning to tasks, 198–99	MPUG. See Microsoft Project User Group (MPUG)
defined, 55, 186	MSO constraint type. See Must Start On (MSO)
setting up, 186–87	constraint type
variable consumption rates, 199	Multiple Baselines Gantt view, 318
Max. Units field	Must Finish On (MFO) constraint type, 148, 163
examing resource allocations, 211	Must Start On (MSO) constraint type
functionality, 59–60, 74, 179, 181 resource calendars and, 63	cautions using, 149
MCTS. See Microsoft Certified Technology	defined, 148
Specialist (MCTS)	negative slack and, 152 My Commands group (Custom tab), 367
menus, tabs as replacements, 7	My Commands group (Custom tab), 307
MFO constraint type. See Must Finish On (MFO)	
constraint type	N I
Microsoft Certified Technology Specialist (MCTS), 440	IN
Microsoft Excel	naming conventions
as editable format, 286	for macros, 352
AutoFill handle, 196	for resource pools, 401
AutoFilters, 243	navigating in Gantt Chart view, 104
copying project data to, 372–76	negative slack, 152
generating visual reports, 386–91	Network Diagram view
opening file format from, 377–82	filtering support, 243
Paste Special feature, 372	formatting, 327–31
PivotChart feature, 387 PivotTable feature, 387, 389	functionality, 327 task relationships, 38
Resource Cost Summary report, 293	New command (File tab)
saving supported formats, 382	creating project plans, 25, 400
Microsoft Project 2010. See Project 2010	functionality, 7–8

New Window command (View tab), 12, 423	phases. See also summary tasks
nonworking days, 46–48, 131	bottom-up planning, 36
Notepad, 372, 384–85	defined, 36
notes. See specific types of notes	organizing tasks into, 35
notes. See specific types of notes	top-down planning, 36
	pivot diagrams, 331
	Planning Wizard, 313
OLAR Cas Online Analytical Brassasina (OLAR)	PMI. See Project Management Institute (PMI)
OLAP. See Online Analytical Processing (OLAP)	predecessor tasks, 37, 142–44
OLE objects, 372	presentations, copying views for, 106
ongoing operations, defined, 431	Print command (File tab), 8, 110
Online Analytical Processing (OLAP), 387	Print Preview window
Open command (File tab)	Backstage view, 110, 335, 341
creating resource pools, 400	Gantt Chart view, 110
functionality, 7–9	Multiple Pages option, 110, 113
opening	Page Right option, 113
files, 9	Page Setup option, 114
other file formats, 377–82	Print Specific Dates option, 111
resource pools, 409, 414	Settings option, 111
sharer plans, 416–19	Timeline view, 110
Options command (File tab). See Project Options	viewing reports, 115–16
dialog box	zoom controls, 337
Organizer feature	printing
accessing, 348	reports, 115–20, 339–42
Calendars tab, 348–50	views, 109–15, 334–39
depicted, 348	product scope, defined, 29
functionality, 347–48	Project 2010
Outline command (View tab)	active view, 6
All Subtasks, 174, 288, 421	editions supported, 4
Hide Subtasks, 201, 214	interface components, 6–7
Outline Level 1, 173, 288	starting, 5
overallocations (resources)	project baseline, saving, 124-27
defined, 212	project calendars. See also base calendars
evaluating, 212	functionality, 46
resolving, 216–20	global templates and, 346
Overbudget Resources report, 292	project costs
Overbudget Tasks report, 289	checking, 227–30
overtime hours, assigning, 306	examining resource costs, 290–93
OvertimeRate field, 62	examining task costs, 287–90
Overview Reports dialog box, 116	in project triangle model, 299, 434
	managing project constraints, 435–37
_	reporting variance in, 293–96
D	troubleshooting problems, 307–311
1	project dependencies, creating, 423-28
Page Setup dialog box, 114, 119, 335–37	project details
pan controls, 104	filtering, 242–48
passwords, setting, 62	grouping, 238–42
Paste Special feature, 372	sorting, 234–38
pasting data. See copying	project duration. See durations
pay rates	project finish date, 228, 302
applying at different times, 184–85	Project Information dialog box
multiple, 183–84	checking plan duration, 49–50
PDF format, 286, 337–38	checking project finish dates, 229–30
peak units, 158–59	creating project plans, 26
people resources. See work resources	depicted, 229

identifying task slippage, 282	setting nonworking days, 46–48
troubleshooting problems, 301	sharing custom elements, 346–51
viewing statistics, 74, 90	storing macros, 352
Project learning communities, 439–40	updating baselines, 259
Project Management Institute (PMI), 441	viewing resource capacity, 200–202
Project Options dialog box	project scope
accessing, 254	defined, 29
applying pay rates automatically, 62	in project triangle model, 299, 434
breaking task/assignment relationships, 273	managing project constraints, 435–37
changing default view, 94	task durations and, 30
cross-project links, 428	troubleshooting problems, 311–14
Customize Ribbon tab, 364–67	viewing resource capacity, 200–202
default start/end dates, 152	Project Server, 443–44
displaying entry bar, 7	Project Statistics dialog box, 50, 282
entering actual costs manually, 269	project status
functionality, 9	examining resource costs, 290–93
grouping project details, 239	examining task costs, 287–90
honoring relationships over	identifying task slippage, 280
constraints, 152	identifying variance, 281–86
identifying tasks on critical path, 172	reporting, 286
Quick Access Toolbar tab, 362–63	reporting variance in project costs, 293–96
rescheduling incomplete work, 276	Project Summary Task (Format tab),
Trust Center dialog box, 377–78, 385–86	95, 422
Work Is Entered In box, 272	Project tab. See also Properties group (Project tab);
project plans	Reports group (Project tab)
assigning resources, 73	functionality, 11
automating task scheduling, 43–45	Insert group, 421
breaking link with resource pools, 403	Schedule group, 126, 261–63
checking cost/finish date, 227–30	Status group, 128, 275
checking duration, 49–50	project tracking
consolidating, 420–23	actual values for tasks/assignments, 125,
copying views, 106–109	132–36, 263–68
creating, 24–27, 400	as scheduled, 128–29
customizing Gantt Chart view, 94–101	completion percentage for tasks, 125, 129–32
customizing reports, 115–20	considerations, 123
customizing Timeline view, 101–103	remaining values for tasks/assignments,
data considerations, 93	263–68
documenting, 50–53	rescheduling incomplete work, 274–76
drawing on Gantt charts, 104–106	saving interim plans, 262–63
entering durations, 30–33	saving project baseline, 124–27
entering milestones, 34	timephased actuals, 258, 269–73
entering task names, 27–29	updating baseline plans, 258–62
evaluating resource allocations, 212–17	project triangle model, 299, 432–35
examining resource allocations, 211–12	projects, defined, 3, 431–32
Gantt charts and, 94	Properties dialog box, 52
global templates and, 346–47	Properties group (Project tab). See also Project
leveling resource allocations, 154,	Information dialog box
217, 220–26	Change Working Time, 46, 63, 155, 408, 410–13
linking to resource pools, 413–15	Task Notes, 51, 68
linking tasks, 37–42	Properties group (Resource tab)
organizing tasks into phases, 35	Details button, 68, 71
printing reports, 115–20	Information, 181, 184
printing views, 109–15	Properties group (Task tab)
resolving overallocations, 217–20	Add to Timeline, 103
saving project baselines, 125	Information, 39, 145, 150, 152, 157, 159

\bigcirc	applying contours to, 192–96
Ų	applying different cost rates, 196–97
Quick Access toolbar	assigning cost resources, 88–90
adding commands, 363	assigning work resources to tasks, 74–81, 89–90
customizing, 362–67	controlling work with, 82–87
overview, 6	delaying start of, 191
removing commands, 364	editing values, 194–95
	to recurring tasks, 169–70
	removing work resources, 84
R	starting at specific times, 192
N	tracking actual/remaining values, 263–68
Recent command (File tab), 8	tracking timephased actuals, 269–73
Record Macro dialog box, 352-53	updating in sharer plans, 406–407
recording macros, 351–56	variable consumption rates, 199
Recurring Task Information dialog box, 168, 170	viewing capacity, 200–202
recurring tasks, setting up, 167-70	viewing in resource pools, 404–405
remaining costs, 227	resource availability/capacity
remaining values for tasks, 263–68	defined, 212
Rename dialog box, 365–67	entering, 59–60
renumbering tasks, 234	setting up, 179–83
Replace Resource dialog box, 310	viewing, 200–202
Reports dialog box	resource calendars
accessing Overbudget Resources report, 292	adjusting working time for tasks, 155
accessing Slipping Tasks report, 286	defined, 63
displaying available reports, 115, 339	examing resource allocations, 211
Reports group (Project tab)	Max. Units field, 63
Budget Cost report, 289	work resources and, 63
Overbudget Resources report, 292	resource costs, examining, 290-93
Overbudget Tasks report, 289	Resource Form
Project Summary report, 286	documenting resources, 68
Reports dialog box, 115, 117, 286, 292, 339	Notes details, 69
Resource Cost Summary report, 293	Task Form and, 78
Slipping Tasks report, 286	viewing assignments in resource pools, 405
Visual Reports, 286, 289, 293, 387–91	Resource Graph view, 217, 221
reports/reporting	resource groups
customizing, 115–20	grouping project details, 238–42
defined, 339	sorting project details, 234–38
functionality, 115	Resource Information dialog box
generating in Excel, 386–91	customizing Max. Units values, 181–82
global templates and, 346	entering different pay rates, 185
printing, 115–20, 339–42	entering multiple pay rates, 183–84
project status, 286	resource leveling
stoplight reports, 293–96	delaying, 217
variance in project costs, 293–96	for overallocated resources, 220-26
viewing, 115–16	functionality, 222
Visio visual reports, 331, 386–91	split tasks and, 154
Reset button, 367	Resource Leveling dialog box, 223–26
resource allocations	resource management. See also specific types of
evaluating, 212–17	resources
examining over time, 211–12	adjusting working time individually, 63–66
leveling, 154, 217, 220–26	assigning resources, 73
resolving overallocations, 217–20	collecting actuals, 273
viewing in resource pools, 404–405	cost information, 62
resource assignments. See also tasks	documenting resources, 68–71
adjusting, 83, 203–208	entering fixed costs, 165–67

entering resource capacity, 59–60	Resource Usage view
entering resource names, 59	depicted, 18
entering resource pay rates, 60–62	evaluating resource allocation, 213, 215
grouping information, 238–42	examining resource costs, 293
Max. Units field, 59	functionality, 18, 192
saving project baseline, 125	hiding assignment details, 339
setting up work resources, 56	linking project plans, 414
sorting data, 234–38	Next Overallocation button, 216
troubleshooting problems, 307–11	resolving resource overallocations, 219
types of resources, 55	ScreenTips in, 214
resource notes	scrolling horizontally, 215
assignment notes and, 195	
	tracking timephased work, 273
defined, 50	viewing assignments in resource pools, 404–405
entering, 68–71	
pasting graphic images, 372	viewing resource capacity, 201
Resource Pool command (Resource tab)	Resource Views group (View tab). See also
Share Resources, 402, 415	Resource Sheet view
Update Resource Pool, 416, 418	Other Views, 217
resource pools	Resource Usage, 18, 201, 404
benefits, 399	Team Planner, 203
breaking link with project plans, 403	viewing other views, 20
creating, 398–403	Respect Links command (Task tab), 42
dedicated, 404	ribbon interface
functionality, 398	as toolbar replacement, 7
linking project plans, 413–15	customizing, 362–67
naming conventions, 401	finding features, 11–15
opening, 409, 414	group divisions, 6
troubleshooting problems, 416	overview, 6
updating information in, 408–10, 416–19	
updating working times in, 411–13	
viewing assignment details, 404–405	S
Resource Sheet view	
accessing, 180, 222, 235	Save & Send command (File tab), 8, 338
copying project data, 374	Save As command (File tab)
creating resource pools, 401	editable formats, 286
depicted, 17	functionality, 8, 10, 95
documenting resources, 69	Save command (File tab), 7–8
Entry table, 235	saving
examining resource costs, 290	interim plans, 262–63
grouping information, 239	project baseline, 124–27
leveling resources, 222	to other file formats, 382–86
linking project plans, 414	Schedule group (Project tab), 126,
Resource Form, 68	261–63
Resource Information dialog box, 183	Schedule group (Task tab)
setting up cost resources, 67	100% Complete, 130
setting up material resources, 186–87	50% Complete, 131
setting up resources, 57–58	Inactivate, 176, 313
sorting, 235	Indent Task, 36–37
Std. Rate field, 61	Link Tasks, 39–40, 45
troubleshooting problems, 307	Mark on Track button, 134–35
Resource tab. See also Assignments group	Respect Links, 42
(Resource tab)	Split Task, 153
functionality, 11	Update Tasks, 129, 134–35, 359
Level group, 223	Schedule table, 172
Properties group, 68, 71, 181, 184	scheduling formula, 81, 158–59

ScreenTips	All Programs, 108, 384
assignment dates, 214	starting Project 2010, 5
calendar details, 158	starting Project 2010, 5
describing work contours, 194	Start No Earlier Than (SNET) constraint type
displaying date values in, 195, 271	defined, 148
displaying progress, 131	usage examples, 149–50, 167
in Gantt Chart view, 214, 260	Start No Later Than (SNLT) constraint type, 148
notes displaying in, 51, 70	start-to-finish (SF) task relationship, 38, 142
splitting tasks, 153	start-to-start (SS) task relationship, 38, 142, 147
viewing constraint details, 150	Statistics dialog box, 301
Scroll to Task command (Task tab), 96, 107, 145-46	Status bar
scrolling in Gantt Chart view, 104	functionality, 7
security considerations, 355	highlighting support, 243
Selected Tasks command (View tab), 426	Zoom In/Out controls, 217
Set Baseline dialog box	Status group (Project tab), 128, 275
accessing, 261	Std. Rate field, 61–62
controlling baseline updates, 262	Stop Recording command (View tab), 354
depicted, 126	stoplight reports, 293–96
saving interim plans, 263	storing macros, 352
SF task relationship. See start-to-finish (SF) task	subprojects, defined, 420
relationship	subtasks
Share Resources dialog box	creating, 36–37
creating resource pools, 402–403	defined, 35
linking project plans, 415	deleting, 313
troubleshooting problems, 416	reports and, 339
SharePoint, synchronizing task lists, 391–95	successor tasks, 37, 142–44
sharer plans	Summary command (Task tab), 37
consolidating information in, 403	Summary table
defined, 398	accessing, 235
opening, 416–19	depicted, 235
troubleshooting problems, 416	modifying, 248
updating assignments in, 406–407	summary tasks. See also phases
updating working times in resource pools, 411–13	adding to Timeline view, 102
shortcut menus, accessing, 7	creating, 37
Show/Hide group (Format tab), 95, 422	defined, 35
Simple Tracking Start project plan, 126	deleting, 313
slack (float), 171	displaying, 95
Slipped/Late Progress filter, 281	displaying as callouts, 103
Slipping Tasks filter, 281, 286	inactivating, 176
SNET constraint type. See Start No Earlier Than	linking, 41
(SNET) constraint type	on Gantt charts, 93, 95
SNLT constraint type. See Start No Later Than (SNLT)	reports and, 339
constraint type	scheduling, 35, 172–75
Sort dialog box	Switch Windows command (View tab), 348, 350, 406
functionality, 12, 236–38	synchronizing task lists, 391–95
re-sorting resources by ID, 292	, , , , , , , , , , , , , , , , , , ,
sorting project details, 234–38	
Split Task command (Task tab), 153	T
Split View group (View tab)	
Details, 19, 77, 306, 405	Table Definition dialog box, 249–50
Timeline check box, 16–17, 49, 306, 327	tables
SS task relationship. See start-to-start (SS) task	copying data to other programs, 373–76
relationship	creating, 248–50
Standard base calendar, 63, 155	customizing, 248–51
Start menu	defined, 248

global templates and, 346	Task Range filter, 243
manipulating columns, 250	task relationships
Tables command (View tab). See also Cost table	adjusting, 142–47
Entry table, 127	creating, 39
More Tables, 248	critical path and, 170
	·
Summary table, 235 Variance, 281, 284	defined, 38, 142
	Task Penert dialog box 341
Work table, 133, 264, 290 tabs (ribbon interface)	Task Report dialog box, 341 task scheduling
	automatic, 30
as menu replacements, 7 finding features, 11–15	constraints and, 148, 163
overview, 6	critical path and, 170
task bar, changing colors, 327	effort-driven, 87–88, 158, 163
task calendars, 155–58	entering deadline dates, 163–65
	identifying potential conflicts, 174
task costs, examining, 287–90 task durations. <i>See</i> durations	
Task Form	manual, 25, 30 presentation style and, 98
	•
assigning work resources, 77–78	recurring tasks, 170
changing task default settings, 86	rescheduling incomplete work, 274–76 saving project baseline and, 125
depicted, 19	31 3
editing values, 19	scheduling formula, 81, 158–59
Resource Form and, 78	setting nonworking days, 46–48
scheduling formula, 82	split tasks and, 154
troubleshooting problems, 307	summary tasks, 35, 172–75 switching, 43–45
viewing task types, 159	5.
Task Information dialog box	tracking progress, 128–29
applying calendars to tasks, 157	troubleshooting problems, 300–306
applying constraints to tasks, 150	Task Sheet view
changing task relationships, 145–46	accessing, 126, 167, 228, 248
changing task types, 162	applying Schedule table, 172
entering deadline dates, 165	creating tables, 248–50
entering notes in, 51	examining task costs, 287–88
linking tasks, 39	functionality, 18
manipulating lead/lag times, 143–45	identifying task slippage, 284
marking tasks as milestones, 35	stoplight reports and, 293
removing constraints, 152	Task tab. See also Properties group (Task tab);
sharing custom elements, 351	Schedule group (Task tab)
viewing task types, 159	Clipboard group, 11, 107, 286, 354, 374, 376
Task Inspector pane	Editing group, 96, 107, 145–46
constraint details, 151 functionality, 144	Font group, 11 functionality, 11
· · · · · · · · · · · · · · · · · · ·	3 .
scheduling details, 146 task lists	Insert group, 34, 37, 168 Tasks group, 43–45, 144
in other file formats, 377	View group, 11, 171, 198
	3 1.
synchronizing, 391–95	task types
task names	changing, 158–63
entering, 27–29 making visible, 103	effort-driven scheduling and, 158, 163 fixed-duration, 158, 194
•	
reformatting visually, 98–100	fixed-unit, 87, 158, 198
task notes accessing, 50	fixed-work, 158 viewing, 159
assignment notes and, 195	3.
entering, 50	Task Usage view
pasting graphic images, 372	accessing, 160, 264 adding columns to, 160
Task Notes command (Project tab), 51, 68	comparing baseline and scheduled work, 290
iask ivotes command (Froject tab), 51, 00	companing baseline and scheduled Work, 290

examining resource costs, 293	successor, 37
functionality, 19, 160, 190, 192	top-down planning, 36, 173
hiding assignment details, 339	tracking actual/remaining values,
tracking timephased work, 273	263–68
vertical divider bar, 264	tracking timephased actuals, 269–73
viewing variances for assignments, 286, 290	updating baselines, 259
Task Views group (View tab)	Tasks group (Task tab)
Calendar, 13, 332	Auto Schedule, 43–45
Gantt Chart button, 13, 19, 127, 168, 172, 259	Inspect, 144
Network Diagram, 328	Mode, 45
Other Views, 20, 126, 167, 226, 248, 252	Team Planner view, 203–208, 217
Task Usage, 160, 264	templates
tasks. See also resource assignments; summary tasks	creating project plans, 25
Actions button, 83	global, 346
· ·	sources of, 10
adjusting working time, 155–58	
assigning cost resources to, 88–90	viewing available, 10
assigning fixed costs to, 167	text boxes
assigning material resources to, 198–99	attaching to Gantt bars, 106
assigning work resources to, 74–81, 89–90	attaching to timescale, 106
associating costs with, 166	Text group (Format tab), 324–25
bottom-up planning, 36	Text Styles button (Format tab), 324–25
changing default settings, 86	time considerations. See durations
completion percentages, 125, 129–32	Timeline view
controlling work calculations, 82–87	adjusting horizontal divider, 102
on critical path, 171	checking plan duration, 49
defined, 23, 27	copying, 106–109
defining for deliverables, 29	customizing, 101–103
documenting, 50–53	formatting, 324–27
entering actual values, 125, 132–36	functionality, 16, 101, 104
entering deadline dates, 163–65	hiding, 17, 327
filtering project details, 242–48	pan and zoom controls, 104
on Gantt charts, 93	Print Preview option, 110
grouping project details, 238	printing, 109–15, 337–39
hyperlinking to information, 51	timephased fields
identifying slippage, 280	functionality, 125
inactivating, 175–76	peak units, 158–59
increasing durations for, 85	tracking actuals, 258, 265–73
interrupting work, 153–54	timescale
linking, 37–42	attaching text boxes to, 106
linking between projects, 423–28	changing in Gantt Chart view, 104
marking as milestones, 35	contouring assignments, 193
organizing into phases, 35	graphing allocations against, 217
predecessor, 37	Timescale box (View tab)
reactivating, 176	adjusting, 16
recurring, 167–70	Days, 208, 215, 218
removing working resources from, 84–85	Months, 202, 215
renumbering, 234	Thirds of Months, 353
resassigning, 208	Weeks, 206, 217, 260, 272, 282, 302, 323
rescheduling incomplete work, 274–76	Timescale dialog box (Gantt Chart view), 131
resource leveling and, 154, 221	toolbars
selecting quickly, 160	Quick Access toolbar, 6, 362–67
setting constraints, 147–52	ribbons as replacements, 7
setting nonworking days, 46–48	Tools menu, 170
sorting project details, 234–38	top-down planning, 36, 173
splitting into seaments, 154, 196	total slack, 171

Tracking Gantt view	View label, 6
accessing, 13, 259	View shortcuts, 6
formatting, 318–23	View tab. See also Data group (View tab); Resource
Gantt Chart view and, 318	Views group (View tab); Split View group (View
identifying task slippage, 282	tab); Task Views group (View tab); Zoom group
updating baselines, 259–60	(View tab)
viewing tasks with variance, 281	functionality, 11–12
tracking projects. See project tracking	Macros group, 352, 354–55, 357, 360
Tracking table, accessing, 133	New Window, 12
troubleshooting problems	Sort, 12
cost and resources, 307–311	Split View group, 306
resource pools, 416	Window group, 348, 350, 401, 406, 423
scope-of-work issues, 311–14	View toolbar, 16
sharer plans, 416	views
time and resource, 300–306	applying in views, 248
Trust Center dialog box, 377-78, 385-86	copying, 106–109
The state of the s	customizing, 251–54, 346
	customizing Gantt Chart view, 94–101
11	customizing Timeline view, 101–103
U	defined, 15
underallocation (resources), 212	filtering support, 243
Uniform Resource Locator (URL), 392	global templates and, 346
units of work (scheduling formula), 81, 158-59	grouping information, 238–42
Update Project dialog box, 128, 275	printing, 109–115, 334–39
Update Resource Pool command (Resource tab),	reports and, 339
416, 418	Visio visual reports, 331, 386–91
Update Tasks dialog box	Visual Basic for Applications (VBA). See Microsoft
accessing, 129	Visual Basic for Applications (VBA)
editing macros, 359	visual reports
entering actual values for tasks, 134–35	Budget Cost report, 289
URL. See Uniform Resource Locator (URL)	Excel supported, 387
Usage table, 213	Resource Cost Summary report, 293
	status-focused, 286
	Visio supported, 331, 386–91
\/	Visual Reports dialog box
V	Budget Cost report, 289
variable consumption rates, 199	generating reports, 387–91
variance. See also troubleshooting problems	Resource Cost Summary report, 293
defined, 257	status-focused reports, 286
examining resource costs, 290–93	
examining task costs, 287–90	
identifying, 281–86	\
reporting for project costs, 293–96	VV
Variance table	WBS. See Work Breakdown Structure (WBS)
accessing, 127, 284	Window group (View tab)
identifying task slippage, 284	Arrange All, 401
viewing tasks with variance, 281	New Window, 12, 423
VBA. See Microsoft Visual Basic for Applications	Switch Windows, 348, 350, 406
(VBA)	WordPad, 108, 372
VBA Editor, 357–62	Work Breakdown Structure (WBS), 328–29
View Definition dialog box, 252–53	work resources
View group (Task tab)	adjusting assignments, 83–87
functionality, 11	adjusting time for, 63–66
Gantt Chart, 198	applying pay rates at different times, 184–85
other views, 171	assigning to tasks, 74–81, 89–90

controlling work calculations, 82-87 costs incurred with, 88 defined, 55, 211 entering names, 59 equipment resources, 57-58 examing resource allocations, 211 multiple pay rates, 183-84 resource calendars and, 63 setting nonworking days, 46-48 setting up, 56 updating working times in resource pools, 411–13 Work table accessing, 133 changing details in, 264, 268 components, 133 displaying work variance, 290 work units (scheduling formula), 81, 158-59

XML format, 382 XPS format, 286, 337–38

Z

zoom controls

accessing on View toolbar, 16
in Print Preview window, 337
in Timeline view, 104
on Status bar, 217

Zoom dialog box, 354

Zoom group (View tab). See also Timescale box
(View tab)
Entire Project, 171, 173, 226, 422
Gantt Chart view, 16
Selected Tasks, 426
Zoom, 357

Zoom slider, 6