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Learning Style: Virtual Classroom

Provider: Microsoft

Difficulty: Advanced

Course Duration: 3 Days

Mastering Microsoft Project 2016 (MS-55205)



About this Course:

A Microsoft Training, advanced level course that aims to help students and professionals further build on their technical knowledge and skills related to Microsoft Project. The course material initiates with the fundamental topics and progresses the students through topics on learning how to plan and manage a small

to average-sized project, as well as how to handle resources and acknowledge the cost and schedule progression.

This course also facilitates the learners in their preparation for Microsoft Project Exam 74-343 Managing Projects through Microsoft Project.

Course Objectives:

After the course completion, students will be able to:

- Acknowledge the discipline of project management and how it incorporates in Microsoft Project 2016
- Develop a Work Breakdown Structure
- Recognize the task types and relationships
- Understand different resources within a project
- Calculate work package estimates
- Develop an initial schedule
- Develop a resource-based schedule
- Develop projects through templates and excel files
- Design global templates
- Create graphical indicators and formulas
- Record and carry out the steps to create a macro
- Print reports and format outputs
- Perform integration of multiple projects
- Create and start a project with a calendar, start date, and scheduling process
- Acknowledge the functionality of manual schedule vs. auto schedule
- Handle multiple projects
- Develop a master project list through shared resources

Audience Profile:

The course can be pursued by both new and experienced project managers, managers, schedulers, and different project stakeholders who wish to learn the essentials and discipline of project management with Microsoft Project 2016.

Prerequisites:

There are no designated prerequisites required for this course. However, it is preferred for the students to have a background knowledge or they must have cleared an introductory project management course like Versatile's Principles of Project Management.

Course Outline:

Module 1: Introduction to Microsoft Project

This module provides an overview of how the features of Project relate to the job of the project manager. The module also teaches the student how to access different

features by navigating through the ribbon.

Lessons

- Describe how Project relates to the discipline of Project management.
- Learn what the new features are in Project 2016.
- Navigate to the primary views available using the Ribbon.
- Choose Views that display task, resource, or assignment information.
- Select table within views to change the information that is available to see and edit.
- Relate the features of Project to the 5 steps for building a plan in Project.

Lab : Introduction to Mastering Microsoft Project

- Learn how to change views from a table to a chart.
- Learn the different subcommands that are under each command groups.
- Learn what functions are under the format tab.
- Learn how to access the backstage.

After completing this module, students will be able to:

- Have a fundamental understanding of how Microsoft Project will help them track their projects.
- Understand what is new in Project 2016 and how it will increase their productivity.
- Learn how the ribbon will help them get the most of out of this productivity tool.
- Learn how to quickly change views and see what is going on with their projects.
- Understand the 5 essential steps in building a successful project plan.

Module 2: A Quick and Easy Overview of Managing with Project

This module demonstrates the required steps to create and use Microsoft Project 2016 through the life cycle of a project.

Lessons

- Create a new project and prepare it for data entry.
- Enter project tasks.
- Sequence the tasks.
- Define resources.
- Estimate Task duration and assign resources.
- Baseline the project.
- Track project progress.

Lab : Creating a Basic Project with a template

- Learn how to create a project plan from a template.
- Learn how to turn off the timeline.

- Learn how to change the project start date.
- Learn how to add holidays to the company calendar.

Lab : Creating a Basic Project

- Learn how to add resources and their cost.
- Learn how to switch views.
- Learn how to insert summary tasks.
- Learn how to link tasks and summary tasks.

After completing this module, students will be able to:

- Prepare a new project plan and set the date and other basic information.
- Enter detailed project information.
- Understand how to sequence tasks.
- Understand and define basic resource types.
- Assign resources to tasks.
- Understand the benefits of baselining a project or specific tasks.
- Understand the basics of how to track project progress.

Module 3: Setting Up a Project

This module explains how to create a new project and establish the basic constraints that Microsoft Project 2016 will use for its calculations.

Lessons

- Use multiple methods to create a new project from an Excel file and a SharePoint Tasks list.
- Establish one or more calendars to constrain resource availability.
- Configure Project to calculate the schedule from the Start Date forward, or from the Finish Date b

Lab : Setting Up a Project

- Learn how to add Holidays to the company calendar.
- Learn how to make a custom calendar.
- Learn how to set the Project Start date.
- ?Learn how to set constraints.

After completing this module, students will be able to:

- Create a new project using a template, Excel, a SharePoint Tasks List or a new Project file.
- Establish one or more calendars to constrain resource availability.
- Configure Microsoft Project to calculate the schedule from the Start Date forward or from the Finish Date backward.

Module 4: Manually Schedule vs. Auto Schedule

This module explains how to how to manually schedule project tasks and how to leverage the auto schedule feature.

Lessons

- Students practice switching tasks between Manually Schedule and Auto Schedule modes. By switching

Lab : Explore Task Modes

- Describe which project functions are turned off for tasks using Manually Schedule mode.
- Change the task mode from Manually Schedule to Auto Schedule and back.
- Identify tasks that are in Manually Schedule mode by the task mode column and shape on the Gantt c
- Describe situations that are particularly appropriate for using Manually Schedule.
- Describe the limitations that a user must be aware of when using Manually Schedule mode.

After completing this module, students will be able to:

- Understand how to turn on Manually Schedule and Auto Schedule.
- Understand when to use Manually Schedule.
- Understand the limitations of Manually Scheduling.

Module 5: Creating a Work Breakdown Structure

This module explains how to create a useful work breakdown structure and enter it into Microsoft Project.

Lessons

- Build and use summary and subordinate tasks.
- Understand and use milestones.
- Develop WBS Outlines.
- Assign completion criteria.
- Evaluate the WBS.
- Understand and use WBS templates.

Lab : Manipulate a WBS

- Learn how to create and manipulate WBS.
- Learn how to utilize an Outline.
- Learn how to create notes within tasks
- Learn how to utilize an Outline.

Lab : Supporting the Project Plan

- Learn how to hyperlink project artifacts to your project plan.

- Learn how to create reoccurring tasks.

After completing this module, students will be able to:

- Build and use summary and subordinate tasks.
- Understand and use milestones.
- How to organize the WBS.
- How to format the WBS.
- Develop WBS outlines.
- Assign completion criteria.
- Evaluate the WBS.
- Understand and use WBS outlines.
- Understand how to link Project artifacts to their projects.
- Understand how to create notes on tasks.

Module 6: Identifying Task Relationships

This module explains the rules for establishing dependency links between tasks and how to use Project to display these dependencies.

Lessons

- Understand the different types of task relationships.
- Understand and use various methods to create relationships.
- Determine and display task sequence.
- Understand and use lag, lead, and delay.
- Understand the new feature of Task Paths.

Lab : Display the sequence

- Identify the different ways to create dependent relationships
- Format a Network diagram.
- Modifying dependency lines.
- Modifying items to be shown on the critical path.

After completing this module, students will be able to:

- Understand the different types of task relationships.
- Understand and use various methods to create relationships.
- Determine and display task sequence.
- Understand how to use Lag, Lead and Delay.

Module 7: Defining Resources within Project

This module explains how to enter resources and specific resource information in Microsoft Project and assign resources to specific tasks.

Lessons

- Define resource types.

- Define individual resources that will be used on the project.
- Record the cost (s) of using each type of resource.
- Record the limit of availability for each type of resource by establishing a resource calendar and d

Lab : Resource Calendar and Availability

- Add holidays to a standard calendar.
- Applying different types of calendars to a project and analyzing the impact to the project schedule.
- Applying vacation schedules to the calendar.
- Replace resources based upon the resource?s calendar.

After completing this module, students will be able to:

- Define the different types of resources.
- Define individual resources that will be used on the project.
- Record the cost(s) of using each type of resource.
- Record the limit of availability for each type of resource by establishing a resource calendar and defining the maximum units of that resource.

Module 8: Making Work Package Estimates

This module explains how Microsoft Project calculates task duration, task work (effort) and task resources. Students will be able to choose among three task types as they enter task estimates and they will know which task type is appropriate for the type of estimate they are making.

Lessons

- Enter estimates for duration and costs for each task.
- Distinguish between task types and describe when each is appropriate.
- Describe the relationship between work, units, and duration.
- Describe the way Effort Driven scheduling is affected by work, units, and duration.
- Assign tasks to resources using the Team Planner view.

Lab : Work, Duration and Labor

- Analyze the impact of duration, work, and labor.
- Create material resources and assigning cost to the resource.
- Understand how to leverage Project statistics
- Apply a material resource to a task and examine the impact to project costs.

After completing this module, students will be able to:

- Assign values for resources, duration and work.
- Understand task types.
- Understand Effort Driven scheduling.
- Understand material resources and their costs to a project plan.

Module 9: Creating an Initial Schedule

This module explains how Project calculates a schedule based on task relationships and task duration. Students will understand the purpose of identifying critical path tasks and will be able to identify schedule float within the project.

Lessons

- Calculate float and identify a project's critical path.
- Understand and identify task constraints.
- Create milestones.
- Use the Task Inspector to troubleshoot the initial schedule.

Lab : Calculating an Initial schedule

- Reviewing changes that can have a positive or negative impact on the project plan.

After completing this module, students will be able to:

- Identify the critical path.
- Understand difference between slack and slippage.
- Calculate float.
- How to leverage constraints.
- How to get the benefit from the Task Inspector, and the impact of changes on a project schedule.

Module 10: Create a Resource Leveled Schedule

This module explains how over-allocated resources create unrealistic schedules and shows methods for rescheduling in order to create a realistic schedule based on resource availability.

Lessons

- Adjust a project schedule to account for limited people and other resources.
- View the overall cost and schedule of a project.
- Identify resources that have been overallocated for a project schedule.
- Use multiple ways to adjust tasks and assignments to remove over allocation for any resource.

Lab : Resource Leveling

- Evaluate the project's resource plan using the resource views.
- Adjust the schedule manually.
- Adjust the schedule using the leveling feature.

After completing this module, students will be able to:

- Adjust a project schedule to account for limited resources.

- View the overall cost and schedule of a project.
- Identify resources that are over- allocated for a project schedule.
- Use multiple ways to adjust tasks and assignments to remove over-allocation for any resource.

Module 11: Managing the Project

This module explains how to use Microsoft Project to control a project. Students will save their plan to a baseline and see how entering actual task performance data enables them to view differences between planned and actual performance.

Lessons

- Learn how to set a baseline.
- Learn how to enter and track project performance data.
- Learn how to apply different tracking methods.
- Learn how to perform a variance analysis on a project.

Lab : The Baseline

- Use Project Statics to see the changes in a project plan.
- Use the variance tables to understand the changes in a project plan.
- Understand the value of baselining.

Lab : Baselining & Tracking Performance

- Understand the value of Baselining a project.
- Understand how to Enter Actuals and measuring their impact.

Lab : Variance

- Understand how variance is calculated with cost, finish and work.

After completing this module, students will be able to:

- Set a baseline.
- Enter and manage project performance data.
- Pick a tracking method.
- Perform variance analysis.
- Sync Projects results with SharePoint.

Module 12: Formatting Output and Printing Reports

Participants will be able to control project output by creating and using Custom Fields, Sorting, Filtering, and Grouping of the project data.

Lessons

- Print
- Views

- Formats
- Sorting
- Filtering
- Grouping
- Custom Fields
- Reporting
- Other File Formats

Lab : Use the Grouping Feature

- Create new fields to group.
- Create new group fields.
- Create new views.

Lab : Create Reports in Project

- Learn how to leverage Microsoft Project's View Report features.
- Learn how to create a Visual Report.

After completing this module, students will be able to:

- Create standardized views, with the power of sorting, filtering and grouping.
- Customize a variety of standard reports.
- Learn how to use Visual Reports.
- Export reports in a variety of formats.

Module 13: Managing Multiple Projects

This module explains how to view many projects as parts of one very large project in order to gain new views on resource availability and task relationships among projects.

Lessons

- Learn how to use common resources among multiple projects.
- Learn how to link tasks between multiple projects.
- Learn how to create a consolidated view of multiple projects.

Lab : Identifying Overallocated Resources from a Resource Pool and Consolidated File

- Learn how to create a master project file.
- Open Resource Pool.
- Learn how to look for over-allocated resources.

After completing this module, students will be able to:

- Use common resources among multiple projects.
- Link tasks between multiple projects.
- Create a consolidated view of multiple projects and shared resources.

Module 14: Advanced Topics

This module explains how to leverage some of the advanced features of Microsoft Project.

Lessons

- Learn how to customize the Ribbon and the Quick Access Toolbar.
- Learn how to customize WBS numbering.
- Learn the concepts of Formulas and Graphical indicators.
- Learn the purpose of the Global template and Organizer.
- Learn how to use Task Deadlines.
- Learn how to record a Macro.

Lab : Recording a Macro in Project

- Learn how to create a macro that will automate a process.

After completing this module, students will be able to:

- Take advantage of the advance features of Microsoft Project.
- Be able to create a Macro.
- Share common settings among all future projects.

Module 15: Summary

This module provides an overview of the topics presented in the course and how to prepare for Microsoft Project Exam 74-343 Managing Projects with Microsoft Project.

Lessons

- ? Learn how to access the Office App Store.

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