

Mathcad 14.0 Essentials

Course Code	TRN-2124-T
Course Length	2 Days

Overview

In this course, you will learn the essentials of Mathcad, including its unique whiteboard interface, and math toolbars. It reinforces Mathcad's extensive functionality using clear and concise trainer-led instruction and examples. This course will familiarize you with many of Mathcad's critical features to ensure immediate application of the product.

Prerequisites

- N/A

Audience

This class is intended for the novice or intermediate user of Mathcad.

Topics

- Mathcad Overview
 - Entering & Editing Expressions
 - Formatting & Documenting
 - Functions
 - Units
 - Plotting (2-D and 3-D)
 - Calculus & Symbolics
 - Solving & Optimization· Differential Equations
 - Programming
 - Data Exchange & Analysis
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Agenda

Day 1

Module 1	Introduction
Module 2	The Basics
Module 3	Variables and Functions
Module 4	Range Variables
Module 5	Vectors and Matrices
Module 6	Intro to Units
Module 7	Unit Systems
Module 8	Angular and Temperature Units
Module 9	Documenting and Formatting
Module 10	Plotting in 2 Dimensions
Module 11	Plotting in 3 Dimensions

Day 2

Module 12	Advanced Computational Techniques
Module 13	Symbolic Math
Module 14	Roots of Equations
Module 15	Solving
Module 16	Optimization
Module 17	Differential Equations
Module 18	Programming
Module 19	Data Exchange
Module 20	Data Analysis

Mathcad 14.0 Essentials

Day 1

1. Introduction

2. The Basics

3. Variables and Functions

4. Range Variables

5. Vectors and Matrices

6. Introduction to Units

7. Unit Systems

8. Angular and Temperature Units

9. Documenting and Formatting

10. Plotting in 2 Dimensions

11. Plotting in 3 Dimensions

Mathcad 14.0 Essentials

Day 2

12. Advanced Computational Techniques

13. Symbolic Math

14. Roots of Equations

15. Solving

16. Optimization

17. Differential Equations

18. Programming

19. Data Exchange

20. Data Analysis

Appendix A Exercise Solutions

Appendix B Best Practices