

**Mastercam<sup>®</sup>**

**Training Solutions**

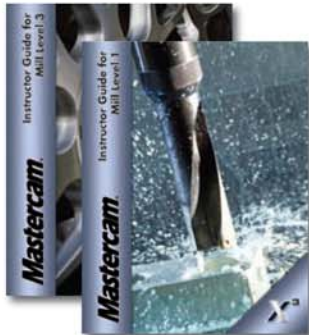


**In-House  
Solutions  
INC.**

# X3 Training Tutorials

Our popular line of Training Tutorials cover every Mastercam application, offering the most extensive collection of training solutions available. Each book contains a series of tutorials that guide the reader through creating geometry, applying then verifying toolpaths and generating G-Code. A variety of helpful hints, review exercises and quizzes are provided for a complete learning experience.

## Mastercam Instructor Kit



- The ultimate instructor companion for those teaching Mill Level 1 & Level 3.
- Designed to accompany the Mill Level 1 & Level 3 Training Tutorials.
- Kit includes: Enhanced Instructor Guide.
- Lesson outlines.
- PowerPoint presentations for each lesson.

- Quizzes testing both geometry and toolpath knowledge.
- Geometry exercises & practice part drawings.
- MCX geometry files for toolpath practice.

ISBN: 978-1-894487-98-6

\$195.00

## Mastercam Mill Level 1 Training Tutorial



- Quickly familiarizes the reader with Mastercam's User Interface and 2D features.
- 10 part-oriented tutorials; 17 practice exercises
- Topics covered include: 2D Geometry and Solids creation, Drilling, Tapping, Contouring, Pocketing, Circle Milling, Slot Milling, 2D High Speed Toolpaths, Stock Setup, Tool Settings

and WCS in multiple fixture applications.

- General Notes chapter with useful tools, shortcuts and 2D toolpath parameter descriptions.
- Includes Mastercam Demo CD.
- 700 Pages.

ISBN: 978-1-894487-90-0

\$ 65.00

## Mastercam Lathe Training Tutorial



- Everything needed to learn Mastercam Lathe.
- 7 part-oriented tutorials; 14 practice exercises.
- Topics covered include: 2D toolpaths such as Face, Rough, Finish, Drilling, Inside Boring, Cutoff, Threads and Canned Cycles for Rough and Finish.
- Also covers 3D geometry creation and C-Axis toolpaths such as Face,

Cross Contouring, C-Axis Drilling and C-Axis Contouring.

- Includes Mastercam Demo CD
- 350 Pages.

ISBN: 978-1-894487-92-4

\$ 40.00

## Mastercam Beginner Training Tutorial



- The perfect starting point for a new Mastercam user.
- 6 Mill, 2 Lathe and 3 Solid tutorials; 17 practice exercises.
- Topics covered include: 2D geometry and Solids creation, Drilling, Tapping, Contouring, Pocketing, Circle Milling, Slot Milling and 2D High Speed Toolpaths.
- Explanations for transforming

toolpaths, proper Stock Setup and Tool Settings.

- General Notes chapter with useful tools, shortcuts and 2D toolpath descriptions.
- Includes Mastercam Demo CD.
- 475 Pages.

ISBN: 978-1-894487-94-8

\$ 60.00

## Mastercam Mill Level 3 Training Tutorial



- Provides a comprehensive approach to learning Mill 3D.
- 8 part-oriented tutorials; 8 practice exercises.
- Topics covered include: 3D Wireframe and Surface geometry creation, Surface Finish and Roughing Toolpaths, advanced Surface High Speed Toolpaths, C-hooks, STL Stock creation and its use in solid model verification.

- General Notes chapter with useful tools, shortcuts, and 3D toolpath parameter descriptions.
- Includes Mastercam Demo CD
- 550+ Pages.

ISBN: 978-1-894487-91-7

\$ 55.00

## Mastercam Solids Training Tutorial



- Concise, step-by-step instructions on creating 3D Wireframe and Solid geometry.
- 6 tutorials illustrating Solid commands
- Topics covered include: Extrude, Revolve, Sweep, and Boolean.
- Create Solid geometry from Surfaces; use Loft commands, Shell, Chamfer and Fillet features.
- 260 Pages.

ISBN: 978-1-894487-93-1

\$ 35.00

## Did You Know?

Many of our books are still available for Mastercam V8 - X2.

# X3 Training Tutorials

## Mastercam Router Training Tutorial



- A comprehensive guide for learning Mastercam Router.
- 9 part-oriented tutorials.
- Topics covered include: 2D geometry creation, Drilling, Pocketing, Contouring, Nesting, Cabinet Door Creation, Engraving, Raster to Vector Translation, custom Tool Profiles and 3D Surface Machining.
- Provides information on Tool and

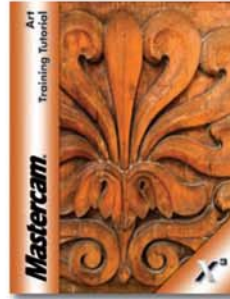
Material Libraries, Job Setup information and additional tips.

- Includes Mastercam Demo CD
- 350 Pages.

ISBN: 978-1-894487-96-2

\$ 60.00

## Mastercam Art Training Tutorial



- Easily create 3D sculpted images from simple 2D artwork.
- 6 step-by-step tutorials.
- Includes instructions for importing a scanned bitmap, clip art or a CAD file and converting it to machinable geometry.

ISBN: 978-1-926566-00-9

\$ 35.00

## Mastercam 4/5 Axis Training Tutorial



- Intended for the advanced Mastercam user.
- 10 tutorials.
- Topics covered include: 3D Geometry creation, Axis Substitution, Rotary Axis Positioning, 5-axis Drilling, Rotary 4-axis, Swarf 5-axis, Flow 5-axis toolpaths, Curve 5-axis, Multi-surface 5-axis and Port 5-axis.
- General Notes pertaining to 4/5 Axis milling.

- A look at Rolldie C-Hooks.

ISBN: 978-1-894487-99-3

\$ 90.00

## Mastercam Advanced Multiaxis Training Tutorial



- Intended for the advanced Mastercam user.
- Sample projects cover Advanced Multi-axis Milling.
- Topics include: Advanced Multiaxis Swarf & Pencil toolpaths, Advanced Multiaxis Surface Roughing and Finishing toolpaths and Gouge Check Strategies.

ISBN: 978-1-926566-01-6

\$80.00

## Mastercam Wire Training Tutorial



- A great resource for anyone learning Wire.
- 6 mechanical part tutorials.
- Topics covered include: 2D & 3D geometry, Wirepath creation such as Contour, Multiple Contours, 4-Axis Wirepath and No Core Wirepath.
- Screenshots demonstrate Start, Thread, Cut, Work (STCW) Parameters, Wire Parameters, Lead

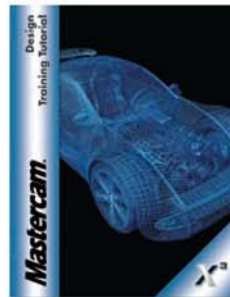
In/Out, Contour Parameters, Tabs and more.

- 240 Pages

ISBN: 978-1-894487-97-9

\$ 35.00

## Mastercam Design Training Tutorial



- Complete Mastercam Design training.
- 18 mechanical part tutorials, 25 dimensioned practice drawings.
- Topics covered include: 2D features such as Arcs, Fillets, Lines, Trim and Mirror. 3D surface modeling features such as Revolved Surfaces, Ruled Surfaces, Coon Surfaces, Swept Surfaces and Curve Creation.
- Includes Mastercam Demo CD.

- 500+ Pages

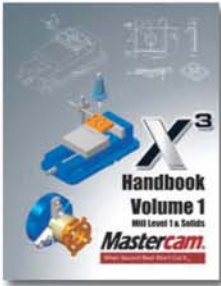
ISBN: 978-1-894487-95-5

\$ 40.00

**Did You Know?**

You can sample our publications online at [www.inhousesolutions.com/books](http://www.inhousesolutions.com/books)

# Mastercam X3 Handbooks



## Volume 1

Teaches the basics of 2D modeling and machining; computer fundamentals, basic and advanced CAD drawing, working with CAD data, basic solid modeling, basic 2D toolpaths: Mill Contour, Pocket and Drill, 2D High Speed Toolpaths, Featured Based Machining Toolpaths, Toolpath modification, Toolpath verification and Post Processing. Demo CD included.

ISBN: 978-1-926566-08-5

\$ 98.00



## Volume 2

Illustrates surface and solid modeling and advanced machining techniques and includes; 2D and 3D splines, 3D wireframe construction, Surface creation, Blending splines and surfaces, Solid modeling, Multisurface roughing & finishing, Toolpath projections, High-speed machining and Post processing. Demo CD included.

ISBN: 978-1-926566-09-2

\$ 98.00



## Volume 3

The Mastercam Handbook Volume 3 covers all multiaxis machining functions, including Drill 5-axis, Curve 5-axis, Swarf 5-axis, Multiaxis Flowline and Multiaxis Multi-surfaces. The book also covers useful information about Advanced Multiaxis Toolpaths and the Multiaxis Post processor.

ISBN: 978-1-926566-10-8

\$ 98.00



## Mastercam Handbook Curriculum

The Mastercam Handbook Curriculum includes:

- 2 Student Handbooks
- Student Application CD
- Instructor Application CD
- Learning Objectives
- Extensive PowerPoint lectures
- Practical and written tests with corresponding answers
- Additional exercises

Price: \$995



## Peter Smid's

### "Exploring Mastercam X2 for 2-1/2 Axis Milling Applications"

Peter Smid's "Exploring Mastercam X2 for 2-1/2 Axis Milling Applications" is like none other available on the market. In a very easy to comprehend style, it provides detailed coverage of virtually all menus, settings, and parameters required to understand Mastercam X2, with a focus on toolpath strategies for 2-1/2 axis machining. The major strength of the book is its profound coverage of CNC knowledge that forms the basis for working with Mastercam. Many programming subjects are explained not just for 'what' they represent but also 'why'. Attention to detail is shown on every page. This book is an ideal desk companion for new and current Mastercam users as well as CNC programmers at all skill levels, who want to uncover the many hidden treasures in Mastercam. Includes Mastercam Demo CD.

ISBN: 978-1-894487-89-4

\$ 70.00

**We're here to help!** Whether you are looking for help installing software, updating codes or choosing books, visit our educational forum at [www.emastercam.com/edu](http://www.emastercam.com/edu)

# X3 Professional Courseware



In-House Solutions unveils a new line of Professional Courseware books that offer a detailed look at Mastercam functionality. Each book provides an exercise based learning experience along with interspersed practice drawings and toolpath creation guidelines. Mastercam Demo CDs are also included.

## Professional Courseware Mill Level 1

Mastercam Mill Level 1 Professional Courseware offers an in-depth look at 2D geometry and toolpaths. Geometry creation is explored through hands-on training exercises using concept based Mastercam files that are designed to help trainees explore and understand geometry functions. Supplementary files and accompanying guidelines are provided that cover each of the features available for contour, pocket, drilling, circle milling and slot milling toolpaths. In addition, this book contains more advanced exercises that explain the use of the Work Coordinate System, 2D High Speed, Featured Based Machining toolpaths, transform toolpaths and wireframe toolpaths for machining basic 3D parts.

ISBN: 978-1-926566-03-0

\$ 65.00

## Professional Courseware Mill Level 3

Mastercam Mill Level 3 Professional Courseware covers a multitude of features that allow the trainee to create 3D wireframe and surfaces for 3D modeling. Training exercises and drawings are provided to learn and practice 3D geometry functionality. Surface toolpaths and the advanced high speed machining are also covered in detail. Additional Mastercam files are included along with guidelines for creating the toolpaths to successfully machine each part.

ISBN: 978-1-926566-04-7

\$ 55.00

## Professional Courseware 4/5 Axis

Mastercam Mill 4/5 Axis Professional Courseware covers the multitude of toolpaths that allow the trainee to machine 4-axis and 5-axis parts. Specific exercises are provided along with instructions on how to define the toolpath geometry, the tool axis orientation and the tip control. Advanced multi-axis toolpaths and how to use them for more complex parts are also taught in this book.

ISBN: 978-1-926566-07-8

\$ 70.00

## Professional Courseware Lathe

Mastercam Lathe Professional Courseware offers an in-depth look at Mastercam lathe geometry and toolpath creation. Training exercises and drawings covering the 2D geometry functionality are provided for the trainee to learn and practice. Additional Mastercam files are also provided along with guidelines for creating the toolpaths to machine each part. Advanced toolpaths such as stock flip, stock advanced and stock transfer are also covered in this book.

ISBN: 978-1-926566-06-1

\$ 35.00

## Professional Courseware Router

Mastercam Router Professional Courseware offers an in-depth look at Mastercam 2D geometry and 2D toolpaths for router applications. Training exercises and drawings covering 2D geometry functionality are provided for the trainee to learn and practice. Additional Mastercam files are also provided along with guidelines for creating the toolpaths to machine each part. Advanced features such as nesting, block drilling, and machining with aggregates are also covered.

ISBN: 978-1-926566-05-4

\$60.00

All Mastercam Training Solutions are available through your local Mastercam Dealer or contact:  
Email: [books@inhousesolutions.com](mailto:books@inhousesolutions.com) Phone: 1.800.529.5517 Web: [www.inhousesolutions.com](http://www.inhousesolutions.com)

# Project Based Titles

## X3 Project Workbook

- Ideal for High School students yet practical for hobbyists and those who prefer project based learning.
- 11 projects, some consisting of multiple parts.
- Includes overviews of CAD/CAM and basic machining; includes pages of part projects and helpful hints.



ISBN: 978-1-926566-02-3

\$ 60.00

## Looking for project based curriculum? Check out our CNC/Mastercam Kit!

- Projects that your students can design, machine and bring home!
- Complete with material list, part drawings, Mastercam files, design and toolpath instructions, post processor\* & installation instructions.
- Includes instructions for part design, toolpaths, verification, posting G-Code, fixturing and machining.\*
- Available with photocopy rights and the "Quick Fix Fixture".

Example: Sunglasses Case



\*Machining instructions & post processor for Techno machines.

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