

Streamingteacher's Mastercam vX2 Courseware

Introduction

| Segment | Description | Time/Rev Date |
|--|---|-------------------------|
| <input type="checkbox"/> 6000 - X2 Demo Download & Installation Instructions View Segment | Download link for the Mastercam X2 Demo software and installation instructions | 05:04 min 10/25/2007 |
| <input type="checkbox"/> 6100 - Introduction to Streamingteacher View Segment | IMPORTANT! PLEASE WATCH THIS VIDEO: Getting around in the Table of Contents, Using Filters and Search capabilities. | 6:57 min 9/7/2006 |
| <input type="checkbox"/> 6101 - Version Differences View Segment | Difference in Appearance Between Versions | 2:00 min 9/7/2006 |
| <input type="checkbox"/> 3106 - Help Menu View Segment | Accessing Help. Navigating through the Help Menu. Accessing The Mastercam X Reference Guide. | 2:37 min 9/7/2006 |
| <input type="checkbox"/> 6103 - About Mastercam Dialog View Segment | The "About Mastercam" Dialog box and Mastercam on the Web: Zip2Go Utility, Reference guide | 2:19 min 9/7/2006 |
| <input type="checkbox"/> 3109 - Windows Basics View Segment | File naming, rename, delete, minimize, maximize, alt tabbing through open programs. | 4:55 min 9/7/2006 |
| <input type="checkbox"/> 3111 - CAD/CAM Coordinate System View Segment | Cartesian coordinates, Point Locations within the Cartesian Coordinate System. | 6:07 min 9/7/2006 |

Unmark

Interface

| Segment | Description | Time/Rev Date |
|--|---|-----------------------|
| <input type="checkbox"/> 3201 - Menus / Interface View Segment | How to access the menus to perform functions. How to use shortcut keys to access functions. | 2:57 min 9/7/2006 |
| <input type="checkbox"/> 3203 - Toolbars View Segment | Toolbar configuration, new toolbars, right mouse button configuration. | 8:38 min 9/7/2006 |
| <input type="checkbox"/> 3205 - Hotkeys View Segment | Hotkeys for quick access: Quick reference card, System focus, Underlined letters, help topics, Tool tips and Learning Mode. | 6:45 min 9/7/2006 |
| <input type="checkbox"/> 6108 - File Open, Save dialog boxes View Segment | Access and Options for File Open and Save: File Descriptor, Filtering / Converting, Save As, File Type Options. | 5:03 min 9/7/2006 |
| <input type="checkbox"/> 6708 - MR2: Save Some View Segment | Save files in different formats | 01:11 min 8/8/2007 |
| <input type="checkbox"/> 6107 - MRU | Most Recently Used MRU Dropdown | 4:31 min |

| | | | |
|--------------------------|--|--|-----------|
| <input type="checkbox"/> | View Segment | most recently used, MRU Dropdown option, MRU on/off. | 9/7/2006 |
| <input type="checkbox"/> | 3241 - Undo / Delete | Undo / Redo. Unlimited or Limit. Delete / Undelete. Delete Duplicate Entities. Events not available for Undo. | 5:02 min |
| <input type="checkbox"/> | View Segment | | 9/7/2006 |
| <input type="checkbox"/> | 6703a - MR2: Design Enhancements - Part 1 | | 00:38 min |
| <input type="checkbox"/> | View Segment | Deleting associative entity options | 8/8/2007 |
| <input type="checkbox"/> | 3207 - Mouse Actions | Demonstrate Mouse Functionality as it Applies to Various Areas of Mastercam. | 7:55 min |
| <input type="checkbox"/> | View Segment | | 9/7/2006 |
| <input type="checkbox"/> | 3211 - System Info, View Gnomons and Status Bar Feedback | Cursor Tracking, Units and Scale indicators, System Origin indicators, G-View, C-Plane, T-Plane, WCS Indicators, Hotkeys for quick access. | 7:31 min |
| <input type="checkbox"/> | View Segment | | 9/7/2006 |
| <input type="checkbox"/> | 3213 - View Control | Zoom/Un-Zoom, Fit to Screen, Pan vs. Spin, Dynamic Rotate, Zoom to a Target, Repaint, F9, Alt+S and Right Mouse-Click Functionality. | 4:54 min |
| <input type="checkbox"/> | View Segment | | 9/7/2006 |
| <input type="checkbox"/> | 3650d - Un-Zoom Previous | | 1:24 min |
| <input type="checkbox"/> | View Segment | The "F2" Hotkey is now Un-Zoom Previous. | 9/7/2006 |
| <input type="checkbox"/> | 3217 - Status Bar | Items showing by default. How to access. Right and Left Click Functionality. Customization. | 3:42 min |
| <input type="checkbox"/> | View Segment | | 9/7/2006 |
| <input type="checkbox"/> | 6219 - Operations Manager Panel Access | Accessing the Operations Manager and toolpath, solids and art manager. Plus contents of the Toolpath Manager. | 5:14 min |
| <input type="checkbox"/> | View Segment | | 9/7/2006 |
| <input type="checkbox"/> | 6707b - MR2: Operation Manager | Now dockable, Resize and float, Second monitor, Font & background customization | 01:06 min |
| <input type="checkbox"/> | View Segment | | 8/20/2007 |
| <input type="checkbox"/> | 6105 - Tooltips and Learning Mode Prompts. | How to access tool tips and Learning mode prompts: On / Off, Tool button size, Dropdown arrows, Learning mode prompts, Activating Learning Mode. | 4:28 min |
| <input type="checkbox"/> | View Segment | | 9/26/2006 |

Unmark

Drafting Features

| Segment | Description | Time/Rev Date |
|--------------------------|---|--|
| <input type="checkbox"/> | 6228 - Drafting Smart Dimensions | Access Smart Dimensions, Drafting Options, Selecting Geometry for Adding Dimensions, Drafting Hotkeys, Cursor Characteristics. |
| <input type="checkbox"/> | View Segment | 07:11 min 9/10/2007 |
| <input type="checkbox"/> | 6229 - Drafting Standard Dimensions | Horizontal / Vertical Dimensions, Parallel Dimensions, Angle Dimensions, Ordinate Dimensions, Point Dimensions, Selecting Geometry for Adding Dimensions, Adding Tolerances to Dimensions, Accessing Smart Dimension Tool for Editing. |
| <input type="checkbox"/> | View Segment | 07:33 min 9/10/2007 |
| <input type="checkbox"/> | 6230 - Creating Drafting Notes | Apply drafting notes to a drawing. Access properties. Change letter size and font. |
| <input type="checkbox"/> | View Segment | 04:43 min |

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|--|---|------------------------|
| View Segment | Multiple note locations. Leaders and arrows. Convert drafting note to lines. | 1/29/2008 |
| <input type="checkbox"/> 6231 - Solid Layout View Segment | Basic Overview for creating a Multi-View Layout from a Solid: Accessing the Solid Layout Option. Setting Layout Parameters. Selecting Levels. Resetting Parameters. Alignment. Suppressing Hidden Lines. Adding Dimensions. | 04:58 min 9/11/2007 |

Unmark

Entering Coordinates into Mastercam

| Segment | Description | Time/Rev Date |
|--|--|-----------------------|
| <input type="checkbox"/> 3215 - Auto Cursor / Auto Highlight View Segment | Auto Cursor Ribbon Bar. Auto Cursor / Highlight configuration and how it works. Snapping to lines, endpoints, midpoints, angles, etc. Visual Cues. Auto Cursor Override. | 11:21 min 9/7/2006 |
| <input type="checkbox"/> 6701 - MR2: Auto Cursor View Segment | Auto cursor visual cues, S toggle snapping on and off. | 01:00 min 8/8/2007 |
| <input type="checkbox"/> 3650c - AutoCursor Lock / Overrides View Segment | AutoCursor locked mode for multiple events. Locked mode limitations | 1:41 min 9/7/2006 |
| <input type="checkbox"/> 3209 - Keyboard Data Entry View Segment | Data entry shortcuts, prompt calculator, value input, inch, metric, angular and fast point. | 3:40 min 9/7/2006 |
| <input type="checkbox"/> 6702 - MR2: Calculator View Segment | Perform calculations in input fields. | 01:15 min 8/8/2007 |
| <input type="checkbox"/> 3650b - Power Keys View Segment | AutoCursor overrides available via single keystrokes | 2:21 min 9/7/2006 |
| <input type="checkbox"/> 3650a - Fastpoint View Segment | Setting the default to FastPoint Mode: XYZ mode. | 2:11 min 9/7/2006 |

Unmark

Geometry Selection Methods - CAD

| Segment | Description | Time/Rev Date |
|--|---|----------------------|
| <input type="checkbox"/> 3221 - General Selection Ribbon Bar View Segment | Overview of the General Selection Ribbon Bar, Selection Methods, Entity Masks for "All" and "Only", Hot Key Tips. | 5:19 min 9/7/2006 |
| <input type="checkbox"/> 3227a - Chaining Basics View Segment | What is a Chain, Full chain, Partial Chain, How to access the Chain option, Chaining intersecting Geometry and Chain Direction. | 7:59 min 9/7/2006 |
| <input type="checkbox"/> 3227b - Chain Selection Problems View Segment | Recognizing Chaining Problems: Overlapping Entities, Duplicate Entities, Improperly Trimmed Entities and Impact on Toolpaths. | 8:43 min 9/7/2006 |

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|--------------------------|--|--|-----------------------|
| <input type="checkbox"/> | 3223 - Pre-Selection View Segment | Turning Pre-Selection On/Off, Selecting entities prior to function, Selecting entities after function, Unselecting entities. | 2:49 min 9/7/2006 |
| <input type="checkbox"/> | 3225 - Masking View Segment | A more detailed look at the Masking option for entity selection. "All" and "Only". Setting Preferences. "Same As" Option. "Maintain Only" Option. Saving a Mask Configuration. | 6:12 min 9/7/2006 |
| <input type="checkbox"/> | 6226 - Quick Mask View Segment | Using the Quick Mask Feature and All or Only Selection | 4:52 min 9/7/2006 |
| <input type="checkbox"/> | 6704 - MR2: Interrupt Mode View Segment | Interrupt a function to perform another | 01:03 min 8/8/2007 |

Unmark

Advanced Interface

| Segment | Description | Time/Rev Date |
|--------------------------|---|--|
| <input type="checkbox"/> | 3229 - Levels Basics View Segment | What are Levels, How to Change Levels for New Geometry, Accessing the Levels Manager, Naming Levels, Level Visibility On or Off, Main Level Always Visible Option. 8:15 min 9/7/2006 |
| <input type="checkbox"/> | 3230 - More on Levels View Segment | How to change Levels for Existing Geometry, Match the Level of Existing Geometry. 2:45 min 9/7/2006 |
| <input type="checkbox"/> | 3231 - Levels Manager View Segment | Using Level Sets, Saving and Importing Level Formats, Selecting Levels, Creating a Levels Report. 3:47 min 9/7/2006 |
| <input type="checkbox"/> | 6706b - MR2: Levels Manager View Segment | New features of Levels Manager: Modless, Second Monitor, Filter 01:37 min 8/20/2007 |
| <input type="checkbox"/> | 3243 - Multi-Viewports View Segment | How to access viewports, changing views inside a viewport and using viewports with backplot. 3:05 min 9/7/2006 |
| <input type="checkbox"/> | 3303 - Colors, Line Style and Width View Segment | Set Attributes For Geometry to be created, Change attributes of Existing Geometry, Match Color of Existing Geometry. 4:47 min 9/7/2006 |
| <input type="checkbox"/> | 3305 - Attributes Manager View Segment | Access the Entity Attributes Manager, Setting Preferences, Apply to Existing Geometry. 7:05 min 9/7/2006 |
| <input type="checkbox"/> | 3307 - Groups / Result View Segment | Creating Groups. Group Colors vs. Entity Color. Selecting entities by Groups. Automatically Generated Groups and Results. 6:58 min 9/7/2006 |

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|--------------------------|---|--|------------------------|
| <input type="checkbox"/> | 3308 - Blank/Un-Blank, Hide/Un-Hide View Segment | Using the Hide / Blank Utilities to Temporarily Remove Entities from the Graphics Area. | 4:31 min 9/7/2006 |
| <input type="checkbox"/> | 6227 - Basic Analyze Functions View Segment | Access Analyze: Dynamic and Properties, Edit using Analyze. | 5:37 min 1/8/2007 |
| <input type="checkbox"/> | 6228 - Drafting Smart Dimensions View Segment | Access Smart Dimensions, Drafting Options, Selecting Geometry for Adding Dimensions, Drafting Hotkeys, Cursor Characteristics. | 07:11 min 9/10/2007 |
| <input type="checkbox"/> | 6229 - Drafting Standard Dimensions View Segment | Horizontal / Vertical Dimensions, Parallel Dimensions, Angle Dimensions, Ordinate Dimensions, Point Dimensions, Selecting Geometry for Adding Dimensions, Adding Tolerances to Dimensions, Accessing Smart Dimension Tool for Editing. | 07:33 min 9/10/2007 |
| <input type="checkbox"/> | 6231 - Solid Layout View Segment | Basic Overview for creating a Multi-View Layout from a Solid: Accessing the Solid Layout Option. Setting Layout Parameters. Selecting Levels. Resetting Parameters. Alignment. Suppressing Hidden Lines. Adding Dimensions. | 04:58 min 9/11/2007 |
| <input type="checkbox"/> | 6705 - MR2: Invert Selection View Segment | Invert selection button | 00:37 min 8/8/2007 |

Unmark

Importing Exporting CAD

| Segment | Description | Time/Rev Date |
|--------------------------|--|---|
| <input type="checkbox"/> | 3306 - File Merge / Pattern View Segment | How to use the Merge / Pattern function and the different uses and options. 7:15 min 9/7/2006 |
| <input type="checkbox"/> | 6118 - Mastercam Direct for Solidworks View Segment | Installation and usage of the Mastercam Direct for Solidworks converter. 07:45 min 8/8/2007 |
| <input type="checkbox"/> | 6102 - Importing CAD Files, Importing Options, Exporting View Segment | Select a file extension, Xform 3D, Solids - Surfaces - Curves - Scales Options, Entity Attributes Manager 6:27 min 10/20/2006 |

Unmark

Geometry Basics

| Segment | Description | Time/Rev Date |
|--------------------------|--|--|
| <input type="checkbox"/> | 63110 - Introduction to Geometry Creation - Example #1 View Segment | Part 1: Live/ Fixed Entities, Create Line End Point, Obtain X and Y values, Hard and soft lock, Trim divide. 4:40 min 9/7/2006 |

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|--------------------------|---|--|-----------------------|
| <input type="checkbox"/> | 3111 - Introduction to Geometry Creation - Example #2 View Segment | Part 2: Create Arcs center point, Create Arcs tangent, Trim, Delete entities, Xform rotate. | 4:49 min 9/25/2006 |
| <input type="checkbox"/> | 3309 - 2D / 3D Mode View Segment | 2D / 3D modes and using Z depth, Creating geometry in 2D space and Creating geometry in 3D space. | 8:06 min 9/7/2006 |
| <input type="checkbox"/> | 3311 - Ribbon Bar View Segment | Activating the ribbon bar. Unlocked, Soft-lock and Hard-lock. Navigating through the ribbon bar, tool tips, learning mode, closing the ribbon bar. | 4:58 min 9/7/2006 |
| <input type="checkbox"/> | 3313 - Live, Fixed and Phantom Entities View Segment | Properties of entities when they exist as a: Phantom Entity, Live Entity, Fixed Entity. | 1:49 min 9/7/2006 |
| <input type="checkbox"/> | 3318 - Relative Positioning View Segment | Create Entities Relative to the position of another. Define location by X-Y coordinates, Polar Coordinates, and Distance along and entity. | 3:11 min 9/7/2006 |

Unmark

Points Lines and Rectangles

| Segment | Description | Time/Rev Date |
|--------------------------|---|---|
| <input type="checkbox"/> | 3321 - Point Function View Segment | Create Point Position, Point Dynamic, Node Points, Point Segments, Point Endpoint, and Point Small Arcs. 6:53 min 9/7/2006 |
| <input type="checkbox"/> | 3315 - Line Function View Segment | How to access create line endpoint, input x and y coordinates for endpoints, create line with polar information, multi-line creation, create vertical and horizontal lines, create tangent lines. 6:51 min 9/7/2006 |
| <input type="checkbox"/> | 3316 - More on Lines View Segment | Create line closest, line bisect, line perpendicular, line parallel, line parallel and tangent. 3:53 min 9/7/2006 |
| <input type="checkbox"/> | 6316b - MR1 : Line Tangent To a Point View Segment | Create a line defining the tangent point of an arc, Selecting an arc or spline, Choosing the tangent point, Define the line length. 02:25 min 3/13/2007 |
| <input type="checkbox"/> | 3323 - Rectangle / Rectangular Shapes View Segment | Sketching a rectangle, defining by 2 points, defining by width and height, rectangle including a surface, rectangular shapes, "D" shape, double "D", ob-round, choosing an anchor point, filleted corners, center point 5:05 min 9/7/2006 |

Unmark

Create Arcs

| Segment | Description | Time/Rev Date |
|--------------------------|---|--|
| <input type="checkbox"/> | 3317 - Arc Tool View Segment | Basic Arc Tool Options. Create Circle Centerpoint. Ribbon Bar Fields / Hotkeys. Edit a Live Entity, Create Circle Centerpoint and Tangent. 3:23 min 9/7/2006 |

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|--------------------------|--|---|-----------------------|
| <input type="checkbox"/> | 3317b - Arc Polar View Segment | Defining an Arc By Start and End Angles. Defining and Editing an Arc Center Point. Using the "Flip" option. Using The Tangent option. | 5:18 min 9/7/2006 |
| <input type="checkbox"/> | 3317c - Create Circle Edge Point View Segment | Defining a Circle by 2 or 3 Points. Creating a Circle Tangent to 2 Entities, and to 3 Entities. | 3:21 min 9/7/2006 |
| <input type="checkbox"/> | 3317d - Create Arc Endpoint View Segment | Create Arcs Defined by Endpoints. Tangency Option for Create Arc Endpoint. | 2:18 min 9/7/2006 |
| <input type="checkbox"/> | 3317e - Create Arc 3 Points View Segment | Create Arcs as Defined By 3 Points. Create Arcs Tangent to 3 Entities. | 2:03 min 9/7/2006 |
| <input type="checkbox"/> | 6317e - Arc Tangent 2 entities and a Point View Segment | Create arc 3 points. Tangent option. Order of entity selection. | 01:21 min 9/7/2007 |
| <input type="checkbox"/> | 3317f - Create Arc Polar Endpoints View Segment | Create Arcs Defined By End Point Positions. | 2:58 min 9/7/2006 |
| <input type="checkbox"/> | 6317g - Create Arc Tangent View Segment | Create arc tangent to 1, 2 and 3. Create arc tangent point, centerline and dynamic. | 05:03 min 9/7/2007 |
| <input type="checkbox"/> | 3322 - Create Bolt Hole Circles View Segment | Accessing the Create Bolt Circles function. Setting the Radius, Start Angle, Angle Between and Number of Holes. Using the Create Holes option and setting the diameter. | 1:25 min 9/7/2006 |

Unmark

Chamfers and Splines

| Segment | Description | Time/Rev Date |
|--------------------------|---|--|
| <input type="checkbox"/> | 3319 - Fillet Tool View Segment | Enter radius values, fillet styles, trim options, filleting chains vs. entities, chain / fillet direction options. 5:24 min 9/7/2006 |
| <input type="checkbox"/> | 3320 - Chamfer Tool View Segment | Enter Distance Values, 1 Distance, 2 Distances, 1 Distance + Angle, Width, Trim Options, Chamfer Chains vs Entities. 3:35 min 9/7/2006 |
| <input type="checkbox"/> | 3325 - Spline Tool View Segment | Create Spline Manual, Create Spline Automatic, Create Curves Spline, Create Blend Spline, Edit End Conditions. 5:42 min 9/7/2006 |
| <input type="checkbox"/> | 3326 - Converting Splines to Arcs | Convert Circular Shaped Splines to Arcs. Using the Simplify Function. Convert Splines to Arc Segments. Using Break Many Pieces. Converting a Chain of Arcs to 6:31min |

| | | | |
|--------------------------|---|--|----------------------|
| <input type="checkbox"/> | View Segment | a Single Spline. Using the Create Curves Spline Function. | 9/7/2006 |
| <input type="checkbox"/> | 3650l - Modifying Splines View Segment | New Options for setting User Defaults for Chaining. Display Level Descriptor on the screen | 1:31 min 9/7/2006 |

Unmark

Break Polygons, Bounding Box, and Letters

| Segment | Description | Time/Rev Date |
|--------------------------|---|--|
| <input type="checkbox"/> | 3323b - Create Bounding Box 2D/3D View Segment | Using the Bounding Box function to create geometry or stock definition around a model. 8/30/2006 |
| <input type="checkbox"/> | 3324 - Create Polygon / Ellipse View Segment | Sketching a Polygon, Defining the "Base Point", Defining Number of Sides, Radius across flats or corners, Filletting the corners, Defining the Base Point of an Ellipse, Entering values for Radius "A" and "B", Create a partial ellipse, Angle of orientation. 4:21 min 9/7/2006 |
| <input type="checkbox"/> | 6325 - Create Letters View Segment | Access Create Letters. Input Letters. Alignment. Height, Spacing, and Font. Lettering Placement. 05:07 min 1/29/2008 |
| <input type="checkbox"/> | 3327 - Trimming Tool View Segment | Trim 1, 2 and 3 entities, divide, trim to a point, extend / shorten length and trimming arcs. 7:53 min 9/7/2006 |
| <input type="checkbox"/> | 3329 - Break Functions View Segment | Break 1, 2, and 3 entities. Break Divide. Break at a Point. Break at a Distance. Break Extend. 7:21 min 9/7/2006 |

Unmark

Sketcher Projects

| Segment | Description | Time/Rev Date |
|--------------------------|--|---|
| <input type="checkbox"/> | 3501 - 2D Sketcher Project 1 View Segment | Create Rectangle, Create Line Polar, Tangent, Access Fast Point, Create Arc Polar, Create Line Horizontal, Create Fillets, Trim, Partial Chain, Select entities with window "Inside +", X-form Mirror. 11:19 min 9/7/2006 |
| <input type="checkbox"/> | 3502 - 2D Sketcher Project 2 View Segment | Create Circles Center Point, Create Arcs Polar, Access the "Relative" Position Option, Create Arc Polar, Create Circles Tangent to 2 Entities, Trim 3 entity option, Create Fillets. 9:44 min 9/7/2006 |
| <input type="checkbox"/> | 3503 - 2D Sketcher Project 3 View Segment | Create Lines Polar, Create Arcs Polar Start/End Angle, Fast Point Access, Create Fillets with preview and trim, Select entities to Rotate, X-form Rotate, Trim 2 entities, Create Arcs Tangent to 3 entities, Create Circle at the Center of an Arc. 10:26 min 9/7/2006 |
| <input type="checkbox"/> | 3504 - 2D Sketcher Project 4 | Create Circles Center Point, Create Arcs Polar, Access the "Relative" Position Option, Create Arc Polar, Create Circles 10:01 min |

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|--------------------------|---|--|----------------------|
| <input type="checkbox"/> | View Segment | Tangent to 2 Entities, Trim 3 entity option, Create Fillets. | 9/7/2006 |
| <input type="checkbox"/> | 3505 - 2D Sketcher Project 5 - Part 1 View Segment | Create Line Polar. Create Line Horizontal. Create Line Vertical. Create Circle Center Point. Access "Relative" Location Option. Smart Dimension. | 7:30 min 9/7/2006 |
| <input type="checkbox"/> | 3506 - 2D Sketcher Project 5 - Part 2 View Segment | Create Line Tangent ant an Angle. Create Line Parallel. X-Form Mirror. Create Arc Polar. Trim 3 Entities. Create Arc Tangent to 3 Entities. Create Circle Edge Point. Create Fillets. | 7:05 min 9/7/2006 |
| <input type="checkbox"/> | 3506b - 2D Sketcher Project 6 View Segment | Create Circle Center Point. Create Arc Polar. Create Line Horizontal, Vertical, Polar, Parallel. Create Arc Polar Tangent. Create Arc 3 Points Tangent. Create Circle Edge Points Tangent. Fillet, Trim, and Delete Tools. | 8:12 min 9/7/2006 |

Unmark

Views and Planes

| Segment | Description | Time/Rev Date |
|--------------------------|--|---|
| <input type="checkbox"/> | 3235 - Construction Plane View Segment | Creating Geometry using Standard Construction Planes. Changing Construction Planes. Changing C Planes and Z Depths in 2D and 3D Modes. 8:48min 9/7/2006 |
| <input type="checkbox"/> | 3237 - Graphics View View Segment | Accessing Graphics Views. Hot Keys. Status bar Access. Right Mouse Button. 3:53 min 9/7/2006 |
| <input type="checkbox"/> | 3239 - Named Views, WCS View Segment | WCS, Named Views, For Graphics Viewing and for Geometry Construction. 12:18 min 9/7/2006 |
| <input type="checkbox"/> | 6239b - Named Views/Planes for Toolpaths View Segment | Defining program zero, Defining name plane, Axis orientation, Selecting the plane / view origin, Creating a toolpath relative to the new view 06:33 min 12/12/2007 |
| <input type="checkbox"/> | 6239c - Multiple Named Views/Planes for Toolpaths Part 1 View Segment | Creating multiple views / planes / work offsets, Axis orientation, Defining a named plane / view using geometry, Selecting the plane / view origin, Creating a toolpath relative to the new view 11:32 min 12/12/2007 |
| <input type="checkbox"/> | 6239d - Multiple Named Views/Planes for Toolpaths Part 2 View Segment | Creating multiple views / planes / work offsets, Axis orientation, Defining a named plane / view using geometry, Selecting the plane / view origin, Creating a toolpath relative to the new view 12:32 min 12/12/2007 |
| <input type="checkbox"/> | 3240 - Changing The WCS View Segment | Create a Named View and Set the System WCS to recognize it as "Top". 6:50 min 9/7/2006 |

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|--------------------------|---|---|-------------------------|
| <input type="checkbox"/> | <u>6240b - Change WCS for Toolpaths - Part 1</u> <u>View Segment</u> | Part 1: Change the WCS, Assign stock view, Defining a Named plane / view using geometry, Axis orientation, Creating multiple views / planes / work offsets. | 10:27 min 12/14/2007 |
| <input type="checkbox"/> | <u>6240c - Change WCS for Toolpaths - Part 2</u> <u>View Segment</u> | Part 2: Change the WCS, Assign stock view, Defining a Named plane / view using geometry, Axis orientation, Creating multiple views / planes / work offsets. | 10:18 min 12/14/2007 |
| <input type="checkbox"/> | <u>6241 - MR1 : Viewsheets</u> <u>View Segment</u> | Overview of the Viewsheet feature, Access the viewsheet function, Create a toolbar, Create a new viewsheet tab, Bookmark a viewsheet, Levels state saved with a bookmark. | 05:40 min 3/13/2007 |

Unmark

n / Transform Functions

| Segment | Description | Time/Rev Date |
|--------------------------|--|---|
| <input type="checkbox"/> | <u>3335a - Translate</u> <u>View Segment</u> | X-Form Translate function, Geometry Selection, Move, Copy, or Join, Number of copies, Distance and Direction, Between Points, Polar Coordinates, Preview Option, Fit to screen. 5:28 min 9/7/2006 |
| <input type="checkbox"/> | <u>3335b - Translate Project Function</u> <u>View Segment</u> | Project Geometry on to a Plane or Surface: Geometry by Z depth and CPlane. 4:13 min 9/7/2006 |
| <input type="checkbox"/> | <u>3337 - Mirror</u> <u>View Segment</u> | X-Form Mirror functions, Geometry Selection, X-Form Mirror Dialog Box, Inputting Values for Distance and Direction, Selecting Geometry for Distance and Direction. 3:10 min 9/7/2006 |
| <input type="checkbox"/> | <u>3339 - X-Form Rotate</u> <u>View Segment</u> | X-Form Rotate functions, Geometry Selection, X-Form Rotate Dialog Box, Number of Copies, Selecting the Point of Rotation, Angular Value of the Rotation Interval, Rotate vs. Translate Options, Direction of Rotation, Remove / Restore Copies. 3:52 min 9/7/2006 |
| <input type="checkbox"/> | <u>3340a - X-Form Translate 3D Standard</u> <u>View Segment</u> | Translate between standard views, Geometry Selection, X-Form Translate 3D Dialog Box, Source View, Source reference point, Destination View, Destination reference point. 1:27 min 9/7/2006 |
| <input type="checkbox"/> | <u>3340b - X-Form Translate 3D Auxiliary View</u> <u>View Segment</u> | Translate between Auxiliary views, Geometry Selection, X-Form Translate 3D Dialog Box, Accessing the View Mgr, Creating a New View, Source View, Source reference point, Destination View, Destination reference point. 2:13 min 9/7/2006 |
| <input type="checkbox"/> | <u>703b - MR2: Design Enhancements - Part 2</u> <u>View Segment</u> | Xform cancel without undoing. 00:29 min 8/8/2007 |
| <input type="checkbox"/> | <u>703c - MR2: Design Enhancements - Part 3</u> | 01:02 min |

| | | | |
|--------------------------|---|--|----------|
| <input type="checkbox"/> | View Segment | Xform drag - new options | 8/8/2007 |
| <input type="checkbox"/> | 3507 - X-Form Translate Project 1 | X-Form Translate Application, Geometry Selection, Move, Copy, or Join, Distance and Direction, Use New Attributes, Clear Colors, Apply vs. OK. | 4:06 min |
| | View Segment | | 9/7/2006 |

Unmark

Beginning Solids / Primitives

| Segment | Description | Time/Rev Date |
|--------------------------|---|---|
| <input type="checkbox"/> | 3348 - Intro to Solids | Accessing the solids manager, association between wireframe and solids, organizing entities. Using Extrude to create a body, cut a body and editing parameters. |
| | View Segment | 7:23 min 9/7/2006 |
| <input type="checkbox"/> | 3348a - 3D Primitives Basics | Primitive Types. Surface / Solids Option. Creating a Cylinder Primitive. Selecting a Base Point. Radius, Height, Sweep. Orient about an Axis, 2 Points, or a Line. Edit Attribute Control Fields. |
| | View Segment | 7:19 min 9/7/2006 |
| <input type="checkbox"/> | 3348b - Creating Primitive Shapes | More Primitive Types, Solids/Surfaces Option. Block, Cone, Sphere and Torus Shapes. Selecting a Base Point, Entering and Editing Attribute Fields. |
| | View Segment | 9:35 min 9/7/2006 |
| <input type="checkbox"/> | 3348c - Solid Primitives Project | Solid Project Using Only Primitive Solid Shapes: Block, Cylinder, Cone and Sphere. |
| | View Segment | 13:06 min 9/7/2006 |
| <input type="checkbox"/> | 3348d - Surface/Solids Shading | Covers shortcut key access (alt-s), changing colors of shaded models, Mouse Dynamic mode, translucent models, ambient light, chordal height settings, Radial Display Curve Angle. |
| | View Segment | 7:34 min 9/7/2006 |

Unmark

Solid Modeling

| Segment | Description | Time/Rev Date |
|--------------------------|---|---|
| <input type="checkbox"/> | 3348e - Solid Extrude Function - part 1 | Chaining Direction vs. Extrude Direction. Editing and Regenerating Solids. Distance and Draft Options. Direction Options. |
| | View Segment | 2:03 min 9/7/2006 |
| <input type="checkbox"/> | 3348f - Solid Extrude Function - part 2 | Re-Select Function. Re-Select Ribbon Bar Options. Vector, Translucent Shading, and Shortcut Keys. |
| | View Segment | 3:28 min 9/7/2006 |
| <input type="checkbox"/> | 3348g - Solid Extrude Thin Wall Option | Extrude Boss and Cut Using The Thin Wall Option. Thicken amount and direction options. Combine Operations. |
| | View Segment | 6:39 min 9/7/2006 |
| <input type="checkbox"/> | 3348h - Solid Revolve | Create Solids Using the Revolve Function, cut, add, X-form rotate. |
| | View Segment | 4:18 min 9/7/2006 |

| | | | |
|--------------------------|---|--|------------------------|
| <input type="checkbox"/> | <u>3348i - Solid Revolve Cut</u> <u>View Segment</u> | Cut Solids Using the Revolve Function | 2:20 min 9/7/2006 |
| <input type="checkbox"/> | <u>3348j - Solid Sweep</u> <u>View Segment</u> | Solid Sweep. Geometry required for the operation. | 3:31 min 9/7/2006 |
| <input type="checkbox"/> | <u>3348k - Solid Draft Faces</u> <u>View Segment</u> | Draft Solid Faces. Face, Plane, Edge, or Extrude Selection. Draft Angle. Draft Direction. Reference Face / "Hinge Point" Relation. Edit Solid Operations / Regenerate. Propagate Along Tangencies. | 6:47 min 9/7/2006 |
| <input type="checkbox"/> | <u>3348L - Solid Shell Function</u> <u>View Segment</u> | Review of Revolve and Extrude add Boss, Sweep, Fillet and Extrude cut. Accessing the Shell feature. Direction and thickness. Order of operations. | 07:38 min 2/13/2008 |
| <input type="checkbox"/> | <u>6349 - Boolean Remove Function</u> <u>View Segment</u> | Subtracting One Solid Shape from Another: Accessing the Boolean Remove Feature. Select Target Body / Tool Body. Solid History. Associative Properties. | 05:02 min 2/18/2008 |
| <input type="checkbox"/> | <u>6350 - Solid Find Features Function</u> <u>View Segment</u> | Create a Basic History for Imported Solids: Accessing the Solids Find Features Function. Find Holes or Fillets. Create Operations. Minimum Maximum Radius. Edit Circle Diameter Through Analyze Entity. Regenerate Solid Model. Detect and Edit Fillets. Combine Operations. | 04:43 min 2/18/2008 |
| <input type="checkbox"/> | <u>3608 - Silhouette Boundary C-Hook</u> <u>View Segment</u> | Overview of the Silhouette Boundary C-Hook. | 2:16 min 9/7/2006 |
| <input type="checkbox"/> | <u>19 - Create Surfaces and Wireframe from a Solid</u> <u>View Segment</u> | Create Curve All Edges and Surface from Solid, Selecting Solid Faces, Surface "Normals", Edit, Set Normal, Access Levels Manager | 5:09 min 10/23/2006 |
| <input type="checkbox"/> | <u>6231 - Solid Layout</u> <u>View Segment</u> | Basic Overview for creating a Multi-View Layout from a Solid: Accessing the Solid Layout Option. Setting Layout Parameters. Selecting Levels. Resetting Parameters. Alignment. Suppressing Hidden Lines. Adding Dimensions. | 04:58 min 9/11/2007 |

Unmark

Introduction to Toolpaths

| Segment | Description | Time/Rev Date |
|--------------------------|---|--|
| <input type="checkbox"/> | <u>3512a - Ten Step Project 1 - part 1</u> <u>View Segment</u> | Basic 10 Step Approach to Programming in Mastercam X, Part 1. 12:56 min 9/7/2006 |
| <input type="checkbox"/> | <u>3512b - Ten Step Project 1 - part 2</u> | 11:55 min |

| | | | |
|--------------------------|--|---|-----------------------|
| <input type="checkbox"/> | View Segment | Basic 10 Step Approach to Programming in Mastercam X, Part 2 | 9/7/2006 |
| <input type="checkbox"/> | 3401 - Operations Manager Overview View Segment | Toolpath Manager. Object definition (icons). Properties. Editing and Regenerating Operations. Re-Number Tools. Edit Common Parameters. | 12:23 min 9/7/2006 |
| <input type="checkbox"/> | 3650g - Toolpath manager Display Settings View Segment | Only display selected toolpaths, Only display associated geometry, or Both. | 3:13 min 9/7/2006 |
| <input type="checkbox"/> | 6222 - Machine Control Definitions View Segment | Overview of the Machine Control Definitions | 6:42 min 1/8/2007 |
| <input type="checkbox"/> | 6713 - MR2: Machine Definition List View Segment | Manage list options. Customize machine definitions to display. | 00:39 min 8/9/2007 |
| <input type="checkbox"/> | 3407 - Common Toolpath Parameters - Part 1 View Segment | Tool display Window, Access the tool library, Tool Selection and Filter, Tool Definition / Parameters, Accessing the Tool Manager, Accessing the Speed / Feed Calculator, General description of options available, Force Tool Change Option. | 6:39 min 9/7/2006 |
| <input type="checkbox"/> | 3408 - Common Toolpath Parameters - Part 2 View Segment | Contour Parameters Page, General description of options available, Tool Height definitions, Cutter Comp Options, Tip Comp, Roll Cutter around Corners, Infinite look ahead, Leave Stock. | 6:47 min 9/7/2006 |
| <input type="checkbox"/> | 3408d - Cutter Compensation View Segment | Using Cutter Comp in Mastercam, Cutter Compensation in Computer, Cutter Compensation in Control, Cutter Compensation Wear, Cutter Compensation Reverse Wear, Cutter Compensation Off, Lead In / Out, Cutter Comp with Pocket Operations, Tool Diameter Values i | 11:08 min 9/7/2006 |
| <input type="checkbox"/> | 3408a - Absolute vs. Incremental Depths View Segment | Setting the final Cutting Depth from either Z "0" or setting the final depth to the "Distance in Z from the Geometry" | 7:26 min 9/7/2006 |

Unmark

Toolpath Management

| Segment | Description | Time/Rev Date |
|--|--|----------------------|
| <input type="checkbox"/> 3408b - Backplot View Segment | Access Backplot. Select Operations. Toolpath Display. Backplot Options. The Player Bar. Information Display. | 6:05 min 9/7/2006 |
| <input type="checkbox"/> 3650f - Backplot Tool Display View Segment | Opacity settings added to Backplot settings dialog boxes. | 2:04 min 9/7/2006 |

| | | | |
|--------------------------|--|---|-----------|
| <input type="checkbox"/> | 6112 - Restrict Drawing for backplot | | 5:38 min |
| | View Segment | A closer look at options with backplot. | 9/7/2006 |
| <input type="checkbox"/> | 3408c - Verify | Access Verify. Select Operations. Tool Display Options. Verify Options. Machining Controls. Verbose Mode. Measure Option. Translucent Stock. Color Options. | 9:00 min |
| | View Segment | | 9/7/2006 |
| <input type="checkbox"/> | 6408 - Verify Save File | Save Verified Toolpath Results as a File. Use STL File as Stock for Verifying Operations. | 03:52 min |
| | View Segment | | 2/26/2008 |
| <input type="checkbox"/> | 3650m - STL Compare | | 3:45 min |
| | View Segment | Reset Tolerance and Stock to Leave. | 9/7/2006 |
| <input type="checkbox"/> | 3650h - User Defined Speeds / Feeds | | 4:15 min |
| | View Segment | Manually set feeds and speeds. | 9/7/2006 |
| <input type="checkbox"/> | 3607 - Toolpath Editor | Overview of the new Toolpath Editor, Step to a Tool Position to be Edited, Select the Tool Position to be Edited. Delete a "Section" from a toolpath, Edit at a Point of a toolpath, Change Z height and Feed Rate. | 3:48 min |
| | View Segment | | 9/7/2006 |
| <input type="checkbox"/> | 3650e - Toolpath Manager | Setting the default names for Machine Groups, Toolpath Groups, and the NC File Name. | 1:49 min |
| | View Segment | | 9/7/2006 |
| <input type="checkbox"/> | 6240f - Creating a Custom Tool Library | Accessing the tool manager; Copying tools from existing libraries; Creating & naming a tool library; Saving & editing tools in a custom library. | 08:36 min |
| | View Segment | | 4/29/2008 |
| <input type="checkbox"/> | 6240d - Posting Multiple NC Programs Part1 | Part 1: Change toolpath group names, change material, Renumber tool numbers, Recalculate speeds and feeds, Edit common parameters, Tool plane assignments, NC File name. | 07:13 min |
| | View Segment | | 4/28/2008 |
| <input type="checkbox"/> | 6240e - Posting Multiple NC Programs Part2 | Part 2: Assigning multiple program numbers, Change NC file name, Setup sheet type, Multiple setup sheets, Post process multiple NC programs. | 07:48 min |
| | View Segment | | 4/28/2008 |

Unmark

Facing Toolpaths

| Segment | Description | Time/Rev Date |
|--------------------------|--|---|
| <input type="checkbox"/> | 3409 - Facing Function | Create a Facing Toolpath w/Wire Geometry, Create toolpath w/ Stock setup definition, Access Tool Library, C-Plane Chaining, Cutting Methods, Options within the Facing Parameters Page. |
| | View Segment | 12:42 min |
| | | 9/7/2006 |

Unmark

Pocket Toolpaths

| Segment | Description | Time/Rev Date |
|---------|-------------|---------------|
|---------|-------------|---------------|

| | | | |
|--------------------------|--|---|------------------------|
| <input type="checkbox"/> | 3411a - Pocket Basics View Segment | Pocket basics, Geometry selection, Pocket final depth, Depth Cuts, Cutting Method, Machine Finish Pass Final / All Depths. | 6:35 min 9/7/2006 |
| <input type="checkbox"/> | 3411b - Pocket Incremental Depths View Segment | Pocket Incr. Depths, Geometry selection, Analyze Entity, C-plane Chaining, Edit a Cutting Tool, Incremental vs Absolute Depths. | 5:13 min 9/7/2006 |
| <input type="checkbox"/> | 3411c - Pocket Finish Passes View Segment | Pocket Finish Passes, Depth Cuts By Pocket, Depth Cuts By Depth, Machine Finish Pass only at Final Depth, Machine Finish Pass after Roughing all Pockets. | 4:08 min 9/7/2006 |
| <input type="checkbox"/> | 3411e - Pocket Plunge Entry in a Hole View Segment | Pocket Plunge Entry in a Hole, Chain Geometry for Pocketing, Including Points with the pocket chains. | 3:02 min 9/7/2006 |
| <input type="checkbox"/> | 3411f - Pocket Additional Finish Operation View Segment | Pocket Additional Finish Operation, Chain Geometry for Pocketing, Including Points with the pocket chains, Create a Pocket Toolpath, Creating a separate finish operation, Lead In / Out Parameters, Access Verify Configure Page, Use Cylinder shaped stock, C | 4:36 min 9/7/2006 |
| <input type="checkbox"/> | 3411g - Pocket Face Toolpath View Segment | Pocket Face toolpath, Geometry required for Pocket Facing, Setting toolpath Depth, Entrance / Exit Parameters, Overlap Percentage, Finish outer Boundary, Inside Out / Outside In. | 10:55 min 9/7/2006 |
| <input type="checkbox"/> | 3411h - Pocket Island Face Toolpath View Segment | Pocket Island Face toolpath, Geometry required for Pocket Island Facing, Approach / Exit Distance, Overlap Percentage, Stock Above Island, Depth Cuts. | 4:17 min 9/7/2006 |
| <input type="checkbox"/> | 3411i - Pocket Re-Machining View Segment | Pocket Re-Machining, Generating a Pocket Re-Machine Toolpath, Copying an existing toolpath, Setting Re-Machine Parameters, Clearance Values, How the toolpath is computed, Cut where needed vs. complete finish pass. | 6:46 min 9/7/2006 |
| <input type="checkbox"/> | 3411j - Open Pocket View Segment | Pocket type, Partial chain selection, Roughing and Finishing, Open pocket cutting method, Lead in / Lead out. | 10:26 min 8/12/2008 |

Unmark

Contour Toolpaths

| Segment | Description | Time/Rev Date |
|--------------------------|---|--|
| <input type="checkbox"/> | 3413a - 2D Contour Function | Select default machine type, Load 2D Toolpath Toolbar, Define Stock, Creating a Contour Toolpath, Chaining Geometry, Access Tool Library / tool selection, Setting Contour Parameter Values, Cutter Comp |
| | | 12:23 min |

| | | | |
|--------------------------|---|--|------------------------|
| <input type="checkbox"/> | View Segment | Selection, Break Thru, Basic Lead in / out, Back Plot. | 9/7/2006 |
| <input type="checkbox"/> | 3413b - 2D Contour - Lead In / Out View Segment | Overview of Lead In / Out options, Line / Arc options, Start at Midpoint, Overlap, Adjust Start / End of Contour, Enter / Exit on 1st / Last depth cut only, Override feed rate, Use Entry / Exit Point. | 5:28 min 9/7/2006 |
| <input type="checkbox"/> | 3413c - 2D Contour - Depthcuts / Multipass View Segment | Overview of Depthcuts / Multipass options, Maximum Rough Step, Number of Finish Cuts, Finish Step, By Contour / By Depth, Rough Pass Number / Spacing, Finish Pass Number / Spacing, Machine Finish Pass Final / All Depths. | 11:35 min 9/7/2006 |
| <input type="checkbox"/> | 3413d - 2D Contour - 2D Chamfer View Segment | Chain Selection / Direction, Tool Selection, Tool Library Filter, Depth Value, Accessing 2D Chamfer Contour Type, Setting Chamfer Width / Tip Offset, Verify Round Stock Display. | 5:25 min 9/7/2006 |
| <input type="checkbox"/> | 3413e - 2D Contour - Chamfer Supplement View Segment | Chamfer Supplement, Toolpath Models Designed with Chamfers, Profile Chain Selection, Depth Value Selection. | 3:41 min 9/7/2006 |
| <input type="checkbox"/> | 6416 - Contour 3D Chamfer View Segment | 3D Chamfer parameters, Toolpath models designed with chamfer, Edge curves on a solid model, Profile chain selection | 5:41 min 7/6/2007 |
| <input type="checkbox"/> | 6715a - MR2: 2d High Speed Peel Mill Toolpath 1 View Segment | Creating a Peel Mill Toolpath. Toolpath Driven with 2 Entities. Cut Parameters. Trochoidal Parameters. Rough Offset, Rounding Radius, Stepper. Back Feedrate. Finish Pass. Feedrate Override. | 08:26 min 8/15/2007 |
| <input type="checkbox"/> | 6715b - MR2: 2d High Speed Peel Mill Toolpath 2 View Segment | Creating a Peel Mill Toolpath. Toolpath Driven with 1 Entities. Trochoidal Parameters. Single Chain Only. | 03:53 min 8/15/2007 |
| <input type="checkbox"/> | 6414 - MR1 : 2D Contour Z Oscillation View Segment | Contour toolpath options, Access the Z oscillation option, Motion and Distance Options. | 01:37 min 3/22/2007 |
| <input type="checkbox"/> | 6415 - Tab Placement Auto View Segment | Locating tabs on a Profile, Tab width and thickness, Number of tabs along Profile | 2:54 min 3/12/2007 |
| <input type="checkbox"/> | 6415b - Tab Placement Manual View Segment | Manual options for locating a tab on a profile, Manual tab positioning, Using square points. | 3:18 min 3/12/2007 |
| <input type="checkbox"/> | 6415c - Tab Placement Settings | Options available on the tabs settings page, | 1:03 min |

| | | | |
|--------------------------|--|---|-----------|
| <input type="checkbox"/> | View Segment | Point geometry tab positioning, Automatic tabs, Tab motions. | 3/12/2007 |
| <input type="checkbox"/> | 6415d - MR1 : Tab Placement Auto By Distance | | 01:30 min |
| <input type="checkbox"/> | View Segment | Max distance between tabs, Automatic placement. | 3/12/2007 |
| <input type="checkbox"/> | 6417 - Contour Letters | | 07:42 min |
| <input type="checkbox"/> | View Segment | Using the Contour Toolpath to Engrave Letters. Window Selection of geometry. Cutter Selection. Cutter Compensation Type. Lead In, Lead Out setting. Convert Drafting Note to Geometry for Toolpath Selection. | 1/29/2008 |
| <input type="checkbox"/> | 3518 - Contour Project 2D | | 4:34 min |
| <input type="checkbox"/> | View Segment | Creating a Contour toolpath, Chaining Geometry, Lead In/Out, Multi-Pass, Shorten/Extend Contours, Break Function, Leave Stock. | 9/7/2006 |

Unmark

Drill Toolpaths

| Segment | Description | Time/Rev Date |
|--------------------------|---|---|
| <input type="checkbox"/> | 3417a - Drill Function - Drill Parameters | |
| <input type="checkbox"/> | View Segment | Basic Drill Parameters, Entity Selection Methods, Selecting Arc Centers, Using the "Entities" select option, Drill Cycle Types, Tip Compensation. |
| <input type="checkbox"/> | 3417b - Drill Function - Entity Selection Methods | |
| <input type="checkbox"/> | View Segment | Basic Drill Parameters, Entity Selection Methods, Mask on Arc, Sorting Option. |
| <input type="checkbox"/> | 3417c - Drill Function - Entity Selection Methods | |
| <input type="checkbox"/> | View Segment | Basic Drill Parameters, Entity Selection Methods, Automatic Point Selection, Review of Drill Toolpath Basics. |

Unmark

Transform Toolpaths

| Segment | Description | Time/Rev Date |
|--------------------------|--|--|
| <input type="checkbox"/> | 6422 - Transform Toolpaths Basics | |
| <input type="checkbox"/> | View Segment | A basic overview of transform toolpaths. |
| <input type="checkbox"/> | 6423 - 2 Identical Parts \ 2 Work Offsets Part 1 | |
| <input type="checkbox"/> | View Segment | Transform Translate Toolpaths. Decide the Order of Operations. Choose the Number of Copies. Copy Source Operations. Disable Posting. By Coordinate or Toolplane. |
| <input type="checkbox"/> | 6424 - 2 Identical Parts / 2 Work Offsets Part 2 | |
| <input type="checkbox"/> | View Segment | Transform Translate Toolpaths. Decide the Order of Operations. Choose the Number of Copies. Copy Source Operations. Disable Posting. By Coordinate or Toolplane. Use STL File in Verify to View Toolpaths. |

| | | | |
|--------------------------|--|--|-----------------------|
| <input type="checkbox"/> | 6425 - 3 Identical Parts / 3 Work Offsets / Using Subprogram View Segment | Transform Translate Toolpaths. Decide the Order of Operations. Choose the Number of Copies. Copy Source Operations. Disable Posting. By Coordinate or Toolplane. Use STL File in Verify to View Toolpaths. Using the Sub program Option. | 4:23 min 2/5/2007 |
| <input type="checkbox"/> | 6709 - MR2: Mirror Toolpath View Segment | Maintain Cutter Compensation | 01:17 min 8/9/2007 |

Unmark

Circle Toolpaths

| Segment | Description | Time/Rev Date |
|--------------------------|---|--|
| <input type="checkbox"/> | 3419 - Circmill View Segment | Circmill Basics, Circmill Parameters, Roughing Parameters, Entity Selection Methods, Points vs. Circles, Changing Arc Sweep values for cutter comp. 5:32 min 9/7/2006 |
| <input type="checkbox"/> | 3421 - Threadmill View Segment | Threadmill toolpath, Generating a Threadmill Toolpath, Tool Geometry on a Custom Level, Selecting Geometry, Threadmill Parameters, Using an STL file for Verify Stock, Select and Copy Toolpaths, Number of Active Teeth. 12:43 min 9/7/2006 |
| <input type="checkbox"/> | 3606 - Multi-Pass Threadmilling View Segment | Demonstrates the new Multi-Pass feature within the Threadmill Toolpath. 12:49 min 9/7/2006 |
| <input type="checkbox"/> | 3425 - Slot Mill View Segment | Slot Mill Basics, Slot mill Parameters, Ramp Parameters, Entity Selection Methods, Geometry Requirements, Changing Arc Sweep values for cutter comp. 4:41 min 9/7/2006 |

Unmark

Importing Exporting Toolpaths

| Segment | Description | Time/Rev Date |
|--------------------------|---|---|
| <input type="checkbox"/> | 3425b - Export Operations View Segment | Export Operations with Geometry, Select a Directory, Name the Operation File. 2:08 min 9/7/2006 |
| <input type="checkbox"/> | 3425c - Import Operations 1 View Segment | Importing Operations with Geometry, Sort Operations by Tool Number. 3:45 min 9/7/2006 |

Unmark

Toolpath Combination Projects

| Segment | Description | Time/Rev Date |
|--------------------------|---|---|
| <input type="checkbox"/> | 3516 - Toolpath Combo Project 1 View Segment | Creating a new View / Work "0". Define Stock. Toolpaths Created: Face, Contour Standard and Ramp, Pocket Circle Mill, Drill, Spot-Drill, and Tap. Copy a Toolpath and Re-Chain Geometry. Verify Toolpaths. 13:26 min 9/7/2006 |

| | | | |
|--------------------------|--|---|-----------------------|
| <input type="checkbox"/> | <u>3426 - 2 Vise Set-up Project - Part 1</u> View Segment | Creating Named Views. Assigning New Origins to Work Offsets. Relationship Between Toolpaths and Views. Changing Views. Creating a Facing Toolpath. Tool Library Filter. Calculating Feeds and Speeds. Creating Contour Toolpaths. Depth Cuts and Multi-pass. Cu | 10:15 min 9/7/2006 |
| <input type="checkbox"/> | <u>3427 - 2 Vise Set-up Project - Part 2</u> View Segment | Switching Between Views. Creating Drill Toolpaths. Setting Depths using Drill Calculator. Copying a Toolpath. Creating a Pocket Toolpath. Tool Entry in a Drilled Hole. Circle Toolpath. | 8:06 min 9/7/2006 |
| <input type="checkbox"/> | <u>3428 - 2 Vise Set-up Project - Part 3</u> View Segment | Review of the Process. Using an STL File in Verify. Edit Common Parameters. "Force Tool Change." Posting the Code. Reviewing the Code in the Program Editor. Why Use Multiple Work Offsets. | 5:41 min 9/7/2006 |

Unmark

Configuration

| Segment | Description | Time/Rev Date |
|--------------------------|--|---|
| <input type="checkbox"/> | <u>6649 - System Configuration Overview</u> View Segment | Changing, Creating and Available Options in System Configuration 3:22 min 9/7/2006 |
| <input type="checkbox"/> | <u>650i - Chaining Default Options, and Level Descriptor</u> View Segment | New Options for setting User Defaults for Chaining. Display Level Descriptor on the screen 1:28 min 9/7/2006 |
| <input type="checkbox"/> | <u>6225 - Setting Up Autosave</u> View Segment | Accessing Autosave through Settings / Configuration and Preferred parameter settings. 5:36 min 1/8/2007 |
| <input type="checkbox"/> | <u>3650j - MCX Backup Files</u> View Segment | Save backup files in a user-specified backup directory. 2:53 min 9/7/2006 |
| <input type="checkbox"/> | <u>3650n - Browse for External Communications</u> View Segment | Starting with MR2, Mastercam will allow you to browse for an external communications package. 0:41 min 9/7/2006 |
| <input type="checkbox"/> | <u>6104 - Isometric View / C-Plane Update</u> View Segment | Access Cad settings page, update Cplane and Tplane, reset Cplane 5:11 min 9/7/2006 |
| <input type="checkbox"/> | <u>6106 - Ribbon Bar Modality</u> View Segment | Access the Ribbon Bar Modality option, selection of Ribbon Bar options 2:38 min 9/7/2006 |

Unmark

Change Recognition

| Segment | Description | Time/Rev Date |
|---------|-------------|---------------|
|---------|-------------|---------------|

| | | | |
|--------------------------|--|--|------------------------|
| <input type="checkbox"/> | 6113 - Introduction to File Tracking View Segment | File Tracking Options and Criteria | 5:35 min 10/23/2006 |
| <input type="checkbox"/> | 6113b - MR1 : File Tracking additional Options View Segment | Utilizing the Add Folders option within File Tracking to specify additional locations for Mastercam to search for new revisions. | 02:45 min 3/19/2007 |
| <input type="checkbox"/> | 6114 - Change Recognition Part 1: Overview of the Change Recognition Feature View Segment | Access through File Tracking, Change Recognition Interface, Color Codes: Up-to-Date, Dirty, and Affected, Geometry Display Options, Override Geometry Colors. | 5:37 min 10/23/2006 |
| <input type="checkbox"/> | 6115 - Change Recognition Part 2: Applying the Change Recognition Feature View Segment | Selecting Operations, Geometry Display Options, Edit Geometry, Re-Chaining Geometry, Regenerating Operations, Final Geometry Cleanup, Operations Manager Display Options, Only Display Associative Geometry, Blank and Un-Blank Screen Option. | 7:02 min 10/23/2006 |
| <input type="checkbox"/> | 6109 - Change Recognition: Applying Change Recognition to a Solid Model View Segment | Targeting a Specific File, Evaluating Changes between CAD Files, Reselecting Solid Drive "Surfaces", Regenerating Updated Toolpaths, "Cleaning Up" Excess Geometry, Saving The Updated File | 4:50 min 10/23/2006 |
| <input type="checkbox"/> | 6109b - MR1 : Change Recognition Orientation Options View Segment | Covers the orientation/re-positioning options available within Change Recognition which allow you to re-position your incoming file with a variety of different methods to ensure a successful Change Recognition. | 09:05 min 3/19/2007 |

Unmark

High Speed Toolpaths / HST

| Segment | Description | Time/Rev Date |
|--------------------------|--|---|
| <input type="checkbox"/> | 3632 - Intro to HST Machining View Segment | Introduction to the new High Speed Toolpaths in MR-1. 1:53 min 9/7/2006 |
| <input type="checkbox"/> | 3633 - Overview of HST Machining View Segment | How to Create High Speed Toolpaths. Selecting Solids for Machining. New Interface. Basic Parameters. Quick View Settings Window. Copy a Toolpath. Change Toolpath Type and Style. Loop Transitions between Passes. 7:09 min 9/7/2006 |
| <input type="checkbox"/> | 3634 - Core Roughing View Segment | This new roughing motion ensures climb cutting almost all the time and plunges off of the part to the next depth whenever possible. Additional cuts can be added based on a maximum profile stepover set by the user. Features covered: Setting Cut Parameters. 4:08 min 9/7/2006 |

| | | | |
|--------------------------|---|---|-----------------------|
| <input type="checkbox"/> | <p><u>3650p - Rest Roughing</u></p> <p>View Segment</p> | Rest Roughing toolpath has been added to the HST toolpaths. You can now select a previous operation, all. previous operations, a CAD file (including STL), or a roughing tool. | 1:53 min 9/7/2006 |
| <input type="checkbox"/> | <p><u>3635 - Area Clearance</u></p> <p>View Segment</p> | Better suited for roughing cavities and has similar entry/exit intelligence to Core roughing. | 2:44 min 9/7/2006 |
| <input type="checkbox"/> | <p><u>6636 - HST Rest Roughing</u></p> <p>View Segment</p> | Access HST Rest Roughing, Rest material parameters, Previous ops / Tool diameter / Cad file, Adjustments to remaining stock. | 6:46 min 9/25/2006 |
| <input type="checkbox"/> | <p><u>3642 - Raster</u></p> <p>View Segment</p> | Similar to the current finish parallel toolpath, now with improved entry/exit motion. Applying the Raster Finish Toolpath. Steep / Shallow Angle Parameters. Linking Parameters. Step-over Values. Cut Parameters / Machining Angle. Using a Containment Bounda | 8:46 min 9/7/2006 |
| <input type="checkbox"/> | <p><u>3641 - Scallop</u></p> <p>View Segment</p> | Similar to the existing scallop toolpath, but with better transition motion. Applying the Scallop Finish Toolpath. Steepl / Scallop Height Up Milling / Down Milling / Zig Zag. Steep / Shallow Angle Parameters. Approximate Starting Point. Save Verify Res | 8:09 min 9/7/2006 |
| <input type="checkbox"/> | <p><u>6652 - Radial</u></p> <p>View Segment</p> | Radial Finish High Speed Toolpaths | 5:36 min 9/7/2006 |
| <input type="checkbox"/> | <p><u>6654 - Spiral</u></p> <p>View Segment</p> | Spiral Finish High Speed Toolpaths | 7:44 min 9/7/2006 |
| <input type="checkbox"/> | <p><u>3638 - Horizontal</u></p> <p>View Segment</p> | Automatically calculates and machines only the flat surfaces. The user also has control over the range of depths to be machined. | 5:26 min 9/7/2006 |
| <input type="checkbox"/> | <p><u>3639 - Waterline</u></p> <p>View Segment</p> | This is a "constant Z" toolpath with smooth intelligent motion. Fewer retract moves keeps the cutter in contact with the part more often. | 7:12 min 9/7/2006 |
| <input type="checkbox"/> | <p><u>6712 - MR2: HST Waterline Arc Moves</u></p> <p>View Segment</p> | HST 3D Arc move enhancements. Waterline 3D Arc move transitions. 3D Arcs supported in Helix and Ramp for: Core roughing, Area clearance, Rest roughing and Horizontal area. | 01:01 min 8/9/2007 |
| <input type="checkbox"/> | <p><u>3640 - Pencil Cutting</u></p> | Machines just the "creases" of the part or the entire part with a unique and natural cutting motion. Applying the Pencil Finish Toolpath. Limit Number of Offsets. Steep / Shallow Angle Parameters. Applying | 7:25 min |

| | | | |
|--------------------------|---|--|------------------------|
| <input type="checkbox"/> | View Segment | Shallow Angle Parameters. Analyze Dynamic. Step-over Parameter. Overthickness Parame | 9/7/2006 |
| <input type="checkbox"/> | 3636 - Restmill Setting View Segment | Using the Restmill Option in a Roughing Op. Save Verify Results as an STL File. Use an STL File as Stock for Verify. Enter a ? for "Data Entry" Shortcut Keys. Limiting "Z" Depths. | 6:13 min 9/7/2006 |
| <input type="checkbox"/> | 3637 - Adaptive Stepdown View Segment | Applying the Adaptive Stepdown Method. Which Toolpaths are Constant Z Cutting. Accessing the Add-Cuts Option. Min. Stepdown vs. Max. Profile Values. | 4:59 min 9/7/2006 |
| <input type="checkbox"/> | 3643 - Arc Filter View Segment | Accessing Filter Parameters. Filter Ratio. Filter Tolerance. Cut Tolerance. Total Tolerance. Arc Planes G17, G18, G19. How Filtering Effects NC Code Size. How Filtering Effects Cut Accuracy. | 9:04 min 9/7/2006 |
| <input type="checkbox"/> | 3608 - Silhouette Boundary C-Hook View Segment | Overview of the Silhouette Boundary C-Hook. | 2:16 min 9/7/2006 |
| <input type="checkbox"/> | 3650q - HST Stock to Leave on Floors and Walls View Segment | Setting the default to FastPoint Mode | 2:11 min 9/7/2006 |
| <input type="checkbox"/> | 6117 - HST Minimize Tool Burial View Segment | Produce a Core Roughing Toolpath with Trochoidal Loops, Cut Parameters / Minimize Burial. | 2:13 min 10/23/2006 |
| <input type="checkbox"/> | 6617b - MR1 : HST Roughing Trochoidal Controls View Segment | Control page for trochoidal motion; HST area clearance, Minimize burial; Initial, Retry and Minimal loop radius; Feed adjustment. | 03:43 min 3/13/2007 |
| <input type="checkbox"/> | 6318 - MR1 : HST Tool Holder Definition and clearance View Segment | Tool holder options; Selecting a tool holder; Entering clearance distance; Gouge checking the holder. | 03:27 min 3/13/2007 |
| <input type="checkbox"/> | 6656 - Controlling Toolpath Boundaries View Segment | Drive and Check Surface Functionality, Selection of Drive and Check Surfaces, Containment Boundary Selection / Options. | 8:58 min 11/1/2006 |
| <input type="checkbox"/> | 6658 - HST Drive, Checked, Containment Part 1 View Segment | Utilizing Checked Surfaces and Containment Boundaries, Selecting a Checked Surface, Selecting a Containment Boundary, The difference between them. | 4:05 min 10/23/2006 |
| <input type="checkbox"/> | 6659 - HST Drive, Checked, Containment Part 2 View Segment | Utilizing Checked Surfaces and Containment Boundaries, Selecting a Checked Surface, Selecting a Containment Boundary, The difference between them. | 5:35 min 10/23/2006 |
| <input type="checkbox"/> | 19 - Create Surfaces and Wireframe from a Solid | Create Curve All Edges and Surface from Solid, Selecting Solid Faces, Surface | 5:09 min |

[View Segment](#)

"Normals", Edit, Set Normal, Access Levels Manager

10/23/2006

Unmark

HST Combo Projects

| Segment | Description | Time/Rev Date |
|---|--|----------------------|
| <input type="checkbox"/> 3644 - HST Combo Project Part 1 View Segment | Create New View / Origin. Stock Setup. HST Core Rough. Arc Filtering. Backplot Settings. HST Restmill. Verify with STL Stock Model. | 9:11 min 9/7/2006 |
| <input type="checkbox"/> 3645 - HST Combo Project Part 2 View Segment | HST Horizontal Finish. Modify Parameters. HST Waterline Finish. HST Scallop Finish. Save Verify Results as an STL Model. | 7:19 min 9/7/2006 |
| <input type="checkbox"/> 3646 - HST Combo Project Part 3 View Segment | HST Pencil Finish. Modify Parameters. Verify With STL Compare: Save an STL File of Design Model. Compare Verify Results to STL File. Interpret STL Compare "Color Code." | 5:27 min 9/7/2006 |
| <input type="checkbox"/> 3647a - HST Project 2 Roughing Part 1 View Segment | Create New View / Origin. Stock Setup. Face Toolpath. HST Area Clearance. Selecting a Containment Boundary. Backplot and Verify Toolpaths. Save Verify Results as an STL File. | 7:07 min 9/7/2006 |
| <input type="checkbox"/> 3647b - HST Project 2 Roughing Part 2 View Segment | Rough Rest Passes Option. Create Rest Passes using progressively smaller diameter tools to further rough out the model. Save Verify Results as an STL File. Verify using STL Stock Model | 7:12 min 9/7/2006 |
| <input type="checkbox"/> 3648a - HST Project 2 Finishing Part 1 View Segment | Create New Toolpath Group. Horizontal Area Finishing Toolpath. Waterline Finishing Toolpath. Save Verify Results as an STL File. Verify using STL Stock Model. | 8:01 min 9/7/2006 |
| <input type="checkbox"/> 3648b - HST Project 2 Finishing Part 2 View Segment | Pencil Finishing Toolpath. Save Verify Results as an STL File. Verify using STL Stock Model. Verify With STL Compare: Save an STL File of Design Model. Compare Verify Results to STL File. Interpret STL Compare "Color Code" | 3:45 min 9/7/2006 |
| <input type="checkbox"/> 3648c - HST Project 2 Finishing Part 3 View Segment | Pencil Finishing Toolpath. Save Verify Results as an STL File. Verify using STL Stock Model. Verify With STL Compare: Save an STL File of Design Model. Compare Verify Results to STL File. Interpret STL Compare "Color Code" | 3:45 min 9/7/2006 |

Unmark

What's New in X2?

| Segment | Description | Time/Rev Date |
|--|--|---------------|
| <input type="checkbox"/> 6100 - Introduction to Streamingteacher | IMPORTANT! PLEASE WATCH THIS VIDEO: Getting around in the Table of | 6:57 min |

| | | | |
|--------------------------|--|--|------------------------|
| <input type="checkbox"/> | View Segment | Contents, Using Filters and Search capabilities. | 9/7/2006 |
| <input type="checkbox"/> | 6108 - File Open, Save dialog boxes View Segment | Access and Options for File Open and Save: File Descriptor, Filtering / Converting, Save As, File Type Options. | 5:03 min 9/7/2006 |
| <input type="checkbox"/> | 6226 - Quick Mask View Segment | Using the Quick Mask Feature and All or Only Selection | 4:52 min 9/7/2006 |
| <input type="checkbox"/> | 6649 - System Configuration Overview View Segment | Changing, Creating and Available Options in System Configuration | 3:22 min 9/7/2006 |
| <input type="checkbox"/> | 6106 - Ribbon Bar Modality View Segment | Access the Ribbon Bar Modality option, selection of Ribon Bar options | 2:38 min 9/7/2006 |
| <input type="checkbox"/> | 6113 - Introduction to File Tracking View Segment | File Tracking Options and Criteria | 5:35 min 10/23/2006 |
| <input type="checkbox"/> | 6114 - Change Recognition Part 1: Overview of the Change Recognition Feature View Segment | Access through File Tracking, Change Recognition Interface, Color Codes: Up-to-Date, Dirty, and Affected, Geometry Display Options, Override Geometry Colors. | 5:37 min 10/23/2006 |
| <input type="checkbox"/> | 6115 - Change Recognition Part 2: Applying the Change Recognition Feature View Segment | Selecting Operations, Geometry Display Options, Edit Geometry, Re-Chaining Geometry, Regenerating Operations, Final Geometry Cleanup, Operations Manager Display Options, Only Display Associative Geometry, Blank and Un-Blank Screen Option. | 7:02 min 10/23/2006 |
| <input type="checkbox"/> | 6109 - Change Recognition: Applying Change Recognition to a Solid Model View Segment | Targeting a Specific File, Evaluating Changes between CAD Files, Reselecting Solid Drive "Surfaces", Regenerating Updated Toolpaths, "Cleaning Up" Excess Geometry, Saving The Updated File | 4:50 min 10/23/2006 |
| <input type="checkbox"/> | 6652 - Radial View Segment | Radial Finish High Speed Toolpaths | 5:36 min 9/7/2006 |
| <input type="checkbox"/> | 6117 - HST Minimize Tool Burial View Segment | Produce a Core Roughing Toolpath with Trochoidal Loops, Cut Parameters / Minimize Burial. | 2:13 min 10/23/2006 |
| <input type="checkbox"/> | 6654 - Spiral View Segment | Spiral Finish High Speed Toolpaths | 7:44 min 9/7/2006 |

Unmark

MR1 Updates

| Segment | Description | Time/Rev Date |
|--------------------------|---|--|
| <input type="checkbox"/> | 6316b - MR1 : Line Tangent To a Point | Create a line defining the tangent point of 02:25 min |

| | | | |
|--------------------------|---|--|------------------------|
| <input type="checkbox"/> | View Segment | an arc, Selecting an arc or spline, Choosing the tangent point, Define the line length. | 3/13/2007 |
| <input type="checkbox"/> | 6414 - MR1 : 2D Contour Z Oscillation View Segment | Contour toolpath options, Access the Z oscillation option, Motion and Distance Options. | 01:37 min 3/22/2007 |
| <input type="checkbox"/> | 6415d - MR1 : Tab Placement Auto By Distance View Segment | Max distance between tabs, Automatic placement. | 01:30 min 3/12/2007 |
| <input type="checkbox"/> | 6113b - MR1 : File Tracking additional Options View Segment | Utilizing the Add Folders option within File Tracking to specify additional locations for Mastercam to search for new revisions. | 02:45 min 3/19/2007 |
| <input type="checkbox"/> | 6109b - MR1 : Change Recognition Orientation Options View Segment | Covers the orientation/re-positioning options available within Change Recognition which allow you to re-position your incoming file with a variety of different methods to ensure a successful Change Recognition. | 09:05 min 3/19/2007 |
| <input type="checkbox"/> | 6617b - MR1 : HST Roughing Trochoidal Controls View Segment | Control page for trochoidal motion; HST area clearance, Minimize burial; Initial, Retry and Minimal loop radius; Feed adjustment. | 03:43 min 3/13/2007 |
| <input type="checkbox"/> | 6618 - MR1 : HST Tool Holder Definition and clearance View Segment | Tool holder options; Selecting a tool holder; Entering clearance distance; Gouge checking the holder. | 03:27 min 3/13/2007 |
| <input type="checkbox"/> | 6241 - MR1 : Viewsheets View Segment | Overview of the Viewsheet feature, Access the viewsheet function, Create a toolbar, Create a new viewsheet tab, Bookmark a viewsheet, Levels state saved with a bookmark. | 05:40 min 3/13/2007 |

Unmark

Mastercam Art

| Segment | Description | Time/Rev Date |
|--|--|------------------------|
| <input type="checkbox"/> 5006 - Art - Learning Tools View Segment | Art tutorial, Movies, Help system and What's new document. | 10:35 min 3/23/2007 |
| <input type="checkbox"/> 5007 - Art - Orientation and Setup View Segment | Art Setup, Toolbar, Text menu, Art manager: Icons, History tree, Elements, Parameters geometry | 12:02 min 3/23/2007 |
| <input type="checkbox"/> 5008 - Art - Process Flow Antz - Part 1 View Segment | Organic surface, Cross sections: Library and Custom, Adjust Ridge. | 10:15 min 3/23/2007 |
| <input type="checkbox"/> 5009 - Art - Process Flow Antz - Part 2 View Segment | Create dome, Textures: Weave, Brick and Sand, Application style: Sub | 10:15 min 3/23/2007 |

| | | | |
|--------------------------|---|---|------------------------|
| <input type="checkbox"/> | 5010 - Art - Toolpath Antz - Part 3 View Segment | Preparation: Model under Z, Select machine, Select tool, Toolpath parameter, Toolpath styles, Solid model. | 11:17 min 3/23/2007 |
| <input type="checkbox"/> | 5011 - Art - Create Scroll Works Model-3 View Segment | Project flow, Surfaces: Organic and Swept, Chaining: Single and Nested. | 09:45 min 3/23/2007 |
| <input type="checkbox"/> | 5012 - Art - Application Styles Celtic Band View Segment | Selecting chains, Intersections, Application styles: Add, Add cut, Blend, Linking Surfaces. | 09:21 min 3/23/2007 |
| <input type="checkbox"/> | 5013 - Art - Trace Image Dragon - Part 1 View Segment | Trace image, Controls: Spline edit. | 09:37 min 3/23/2007 |
| <input type="checkbox"/> | 5014 - Art - Nested Chains Dragon - Part 2 View Segment | Nested chains, Resolution, Suppress text, Save cross section. | 09:50 min 3/23/2007 |
| <input type="checkbox"/> | 5015 - Art - Design Library - Part 1 View Segment | Design library: Dynamic controls: Translate, Rotate and Scale, Cabinet door. | 10:48 min 3/23/2007 |
| <input type="checkbox"/> | 5016 - Art - Design Library - Part 2 View Segment | Copy: Dynamic controls: Translate, Rotate and Scale copy paste, Paste, Art surface library. | 06:50 min 3/23/2007 |
| <input type="checkbox"/> | 5017 - Art - Art Toolpaths - Part 1 View Segment | Create a custom V-tool and create a custom tool library. | 08:50 min 3/23/2007 |
| <input type="checkbox"/> | 5018 - Art - Art Toolpaths - Part 2 View Segment | Cutting methods including - Optimized parallel horizontal, Optimized rectangle spiral, Ellipse up the edge and up to corner, Parallel horizontal and vertical, Parallel at a given angle, Radial to edge and corner, Rectangle spiral rounded corners and spiral. | 12:22 min 3/23/2007 |
| <input type="checkbox"/> | 5019 - Art - Art Toolpaths - Part 3 View Segment | Cutting methods including - Parallel up to boundry, Parallel spiral up to boundry, Hybrid up to boundry, Using ...up to boundry. | 11:20 min 3/23/2007 |
| <input type="checkbox"/> | 5020 - Art - ABS Unwrapped Cylinder View Segment | Controls, Set up for toolpath, Toolpath styles. | 08:31 min 3/23/2007 |
| <input type="checkbox"/> | 5021 - Art - Create Ring Text Band - Part 1 View Segment | Text band including: Unwrapped art base surface, Create geometry, Create surfaces. | 11:46 min 3/23/2007 |

| | | | |
|--------------------------|---|--|------------------------|
| <input type="checkbox"/> | 5022 - Art - Create Ring Text Band - Part 2 View Segment | Toolpath: Tool selection, Toolpath parameters, Rotary orientation X, Toolpath cutting methods, Backplot, Verification. | 07:52 min 3/23/2007 |
| <input type="checkbox"/> | 5023 - Art - Image to Surface - Part 1 View Segment | A good picture, Gray scale conversion, Controls. | 09:24 min 3/23/2007 |
| <input type="checkbox"/> | 5024 - Art - Image to Surface - Part 2 View Segment | Editing: Flattening and Smoothing, Mannequins. | 09:05 min 3/23/2007 |
| <input type="checkbox"/> | 5025 - Art - Hybrid Modeling - Import STL View Segment | Create solid model, Create surface plane, STL to Art base surface, Add art entity, Export STL. | 08:44 min 3/23/2007 |
| <input type="checkbox"/> | 5026 - Art - Multiple Art Base Surfaces View Segment | Multiple ABS: Creation and Toolpath | 09:48 min 3/23/2007 |
| <input type="checkbox"/> | 5027 - Art - Surface Types View Segment | Swept, Border plane, Swept 2 ends, Incline, Ellipse. | 11:18 min 3/23/2007 |
| <input type="checkbox"/> | 5028 - Art - Tips View Segment | Blend edge, Flatten, Smooth, Create surface to: Inside / Outside. | 09:21 min 3/23/2007 |
| <input type="checkbox"/> | 5029 - Art - Engrave Toolpath View Segment | V-Cutter, Engrave styles: Chisel, Emboss, Emboss/Rough, Emboss/Rough/Chisel. | 12:22 min 3/23/2007 |

Unmark

Intro to Lathe Toolpaths

| Segment | Description | Time/Rev Date |
|--------------------------|--|--|
| <input type="checkbox"/> | 3650g - Toolpath manager Display Settings View Segment | Only display selected toolpaths, Only display associated geometry, or Both. 3:13 min 9/7/2006 |
| <input type="checkbox"/> | 6222 - Machine Control Definitions View Segment | Overview of the Machine Control Definitions 6:42 min 1/8/2007 |
| <input type="checkbox"/> | 6801 - Operations manager – Lathe specifics View Segment | Access the Toolpath Manager, Machine Groups, Toolpath Groups, Toolpath Operations, Expand / Collapse, Move / Copy / Cut, Insert Arrow, Toolpath Manager Tool Bar, Right Click Options, Display Options. 11:05 min 4/3/2007 |
| <input type="checkbox"/> | 6802 - Lathe Coordinate System View Segment | Lathe Diameter, Lathe Radius, Creating a Simple Part, Analyze Entity, General Machine Parameter Defaults. 05:40 min 4/2/2007 |
| <input type="checkbox"/> | 6802b - Lathe Coordinate System Supplemental View Segment | Access the View Manager, Lathe Z = World Z. 01:25 min 4/2/2007 |

| | | | |
|--------------------------|---|--|-----------------------|
| <input type="checkbox"/> | 6803 - Stock Definition and Chuck Definition View Segment | Stock Properties, Stock Geometry Parameters, Use Margins, Chuck Properties, Clamping Method, Chuck Position, Preview Display Options. | 6:55 min 3/26/2007 |
| <input type="checkbox"/> | 6805 - Stock Update / Stock preview. tracking remaining stock , red arrow View Segment | Operations Manager Red Arrow, Updating Stock display, Lathe Stock Preview. | 5:23 min 3/26/2007 |
| <input type="checkbox"/> | 6804 - Lathe common toolpath parameters - Part 1 View Segment | Tool Libraries, Tool Selection, Tool Filter, Tool Manager. | 05:02 min 4/3/2007 |
| <input type="checkbox"/> | 6804b - Lathe common toolpath parameters - Part 2 View Segment | Tool Information, Number / Offset / Station, Speed and Feed, Definitions, Tool Parameters, Home Position, Force Tool Change, Comments. | 07:11 min 4/3/2007 |
| <input type="checkbox"/> | 6807 - Tool Definition View Segment | Defining a tool by using the insert and holder libraries, Tool Types, Insert Selection and Definition, Tool Code Reference, Insert Catalog, Holder Selection and Definition, Holder Catalog, Tool Parameters, Draw Tool, Tool Setup, Home Position from Tool | 08:21 min 4/9/2007 |
| <input type="checkbox"/> | 6808 - Custom Tool Definition View Segment | Geometry Attribute Requirements. Separate File / Separate Level, Create New Tool / Custom, Cut / Plunge Direction, Tool Orientation in the Turret, Tool Clearance, Scan Tool Geometry, Draw Tool, Tool Setup. | 6:07 min 4/23/2007 |

Unmark

Lathe Toolpaths

| Segment | Description | Time/Rev Date |
|--------------------------|--|--|
| <input type="checkbox"/> | 6809 - Lathe Project - Face View Segment | Access the Lathe Face Toolpath, Tool Selection. Face Parameters, Use Stock, Select Points, Backplotting the Toolpath. 6:08 min 3/26/2007 |
| <input type="checkbox"/> | 6809b - Lathe Project - Rough View Segment | Access the Lathe Rough Toolpath, Selecting Toolpath Geometry, Tool Selection, Rough Parameters, Overlap Parameters, Lead In / Lead Out, Extend / Shorten Contour. 5:39 min 3/26/2007 |
| <input type="checkbox"/> | 6809c - Lathe Project - Finish View Segment | Access the Lathe Finish Toolpath, Selecting Toolpath Geometry, Tool Selection, Finish Parameters, Lead In / Lead Out, Extend / Shorten Contour, Verify Toolpath. 4:18 min 3/26/2007 |
| <input type="checkbox"/> | 6809d - Lathe Project - Drill View Segment | Access the Lathe Drill Toolpath, Tool Selection, Depth Selection, Simple Drill No Peck, Peck Drill Parameters. 3:47 min 3/26/2007 |

| | | | |
|--------------------------|--|---|-----------------------|
| <input type="checkbox"/> | <u>6809e - Lathe Project - Rough Bore</u> View Segment | Access Lathe Rough Toolpath, Geometry Selection, Tool Selection, Rough Parameters for Inside Diameter, Lead In / Lead Out, Stock Recognition Option, Use Stock for Outer Boundary, Semi Finish. | 6:05 min 3/26/2007 |
| <input type="checkbox"/> | <u>6809f - Lathe Project - Finish Bore</u> View Segment | Access Lathe Finish Toolpath, Geometry Selection, Tool Selection, Finish Parameters for Inside Diameter, Tool Collision Warning, Lead In / Lead Out. | 06:14 min 4/2/2007 |
| <input type="checkbox"/> | <u>6809g - Lathe Project - Cutoff</u> View Segment | Access Lathe Cutoff Toolpath, Geometry Selection, Tool Selection, Select Cutoff Boundary Point, Cutoff Parameters. "Cut To" Parameters, Corner Geometry. | 5:34 min 4/2/2007 |

Unmark

Lathe Groove & Thread Toolpaths

| Segment | Description | Time/Rev Date |
|--------------------------|---|---|
| <input type="checkbox"/> | <u>6812 - Lathe Toolpath Groove - Part 1</u> View Segment | Access Lathe Cutoff Toolpath, Geometry Selection, Tool Selection, Groove Rough Parameters, Cut Direction, Groove Walls, Peck Groove / Depth Cuts, Groove Finish Parameters, Overlap. 07:05 min 4/2/2007 |
| <input type="checkbox"/> | <u>6812b - Lathe Toolpath Groove - Part 2</u> View Segment | Access Lathe Groove Toolpath, Point Selection Definition, Tool Selection, Groove Shape Parameters, Groove Chamfer, Quick Set Corners. 03:13 min 4/2/2007 |
| <input type="checkbox"/> | <u>6813 - Lathe Toolpath Thread Basics</u> View Segment | Access Lathe Thread Toolpath, Select Tool, Thread Shape Parameters Basics, Thread Cut Parameters Basics, Determine Cut Depths, Update Stock 05:53 min 4/2/2007 |
| <input type="checkbox"/> | <u>6813b - Lathe Thread Shape Parameters</u> View Segment | Manually Input Thread Shape Data, Select from Table, Compute from Formula, Allowance / Table / Class, Adjusted Diameters, Draw Thread. 04:24 min 4/2/2007 |
| <input type="checkbox"/> | <u>6813c - Lathe Thread NC Code Output</u> View Segment | NC Code Options: Canned, Longhand, Box, Alternating. 04:03 min 4/2/2007 |

Unmark

Lathe Misc. OPS

| Segment | Description | Time/Rev Date |
|--------------------------|--|---|
| <input type="checkbox"/> | <u>6815 - Stock Flip Part 1 - Basics</u> View Segment | Access Misc. Ops. / Lathe Stock Flip, Selecting Geometry to Flip, Level Option, Stock Position, Chuck Position, Positioning the Red Arrow, NC Code Output. 05:52 min 4/2/2007 |
| <input type="checkbox"/> | <u>6815b - Stock Flip Part 2 - OD to ID Flip</u> | Select Geometry for Flip, Stock Position, 04:57 min |

| | | |
|---|---|------------------------|
| View Segment | Chuck Position, Preparation for OD to ID Flip | 4/2/2007 |
| <input type="checkbox"/> ws1008a - Workshop: Lathe Tooling Part 1 View Segment | Lathe Tool setup. Holder & Insert Libraries. Modifying existing tools. Creating custom tools. Part 1 (Un-edited screen capture of a training webinar) | 23:48 min 9/12/2007 |
| <input type="checkbox"/> ws1008b - Workshop: Lathe Tooling Part 2 View Segment | Lathe Tool setup. Holder & Insert Libraries. Modifying existing tools. Creating custom tools. Part 2 (Un-edited screen capture of a training webinar) | 23:08 min 9/12/2007 |
| <input type="checkbox"/> ws1011a - Workshop: Lathe Programming - Part 1 View Segment | Unique aspects of Mastercam Lathe. Orienting your part file for Turning. Setup of Stock and Chuck. Programming the Part. | 33:05 min 3/19/2008 |
| <input type="checkbox"/> ws1011b - Workshop: Lathe Programming - Part 2 View Segment | Unique aspects of Mastercam Lathe. Orienting your part file for Turning. Setup of Stock and Chuck. Programming the Part. | 28:47 min 3/19/2008 |

Unmark

Nesting and ATP

| Segment | Description | Time/Rev Date |
|---|--|-----------------------|
| <input type="checkbox"/> 6500 - Router: Geometry Nesting - #1 View Segment | Nesting overview: Geometry and Toolpath nesting, Nesting modes, X-form menu, Sheet and part parameters and options | 6:32 min 7/6/2007 |
| <input type="checkbox"/> 6501 - Router: Geometry Nesting - #2 View Segment | Nesting overview continued: Adding and Deleting parts, Clusters, Minimum and Fill Quantity, Step Angle, Rectangular / True Shape Nesting, Grain Direction, Labels. | 6:00 min 7/6/2007 |
| <input type="checkbox"/> 6502 - Router: Geometry Nesting - #3 View Segment | Nesting overview continued: Nesting configuration, Result display, Vertical / Horizontal cutoff, Nesting Report. | 7:49 min 7/6/2007 |
| <input type="checkbox"/> 6503 - Toolpath Nesting Overview View Segment | Toolpath Nesting Parameters, Clusters, Sorting methods, Stop Conditions, Work offset and Onion skin. | 06:37 min 7/9/2007 |

Unmark

Router Specifics

| Segment | Description | Time/Rev Date |
|---|--|----------------------|
| <input type="checkbox"/> 6500 - Router: Geometry Nesting - #1 View Segment | Nesting overview: Geometry and Toolpath nesting, Nesting modes, X-form menu, Sheet and part parameters and options | 6:32 min 7/6/2007 |
| <input type="checkbox"/> 6501 - Router: Geometry Nesting - #2 View Segment | Nesting overview continued: Adding and Deleting parts, Clusters, Minimum and Fill Quantity, Step Angle, Rectangular / True Shape Nesting, Grain Direction, Labels. | 6:00 min 7/6/2007 |

| | | | |
|--------------------------|--|--|------------------------|
| <input type="checkbox"/> | 6502 - Router: Geometry Nesting - #3 View Segment | Nesting overview continued: Nesting configuration, Result display, Vertical / Horizontal cutoff, Nesting Report. | 7:49 min 7/6/2007 |
| <input type="checkbox"/> | 6503 - Toolpath Nesting Overview View Segment | Toolpath Nesting Parameters, Clusters, Sorting methods, Stop Conditions, Work offset and Onion skin. | 06:37 min 7/9/2007 |
| <input type="checkbox"/> | 6503b - Router: Toolpath Nesting - Part 2 View Segment | More on Toolpath Nesting Parameters, Maximize material use, Nesting configuration, Sheet parameters. | 03:18 min 12/3/2007 |
| <input type="checkbox"/> | 6504 - Router: Aggregate Heads View Segment | Defining Aggregate Head applications, Adding stations, Choosing tool settings. | 03:07 min 12/3/2007 |
| <input type="checkbox"/> | 6505 - Router: Block Drilling View Segment | Defining and Adding Block Drills, Block Drilling toolpaths. | 02:46 min 12/3/2007 |
| <input type="checkbox"/> | 6506 - Router: Engraving View Segment | Engraving toolpaths, Roughing and Finishing | 02:31 min 12/3/2007 |
| <input type="checkbox"/> | 6507 - Router: 5 Axis View Segment | Swarf toolpath, Customer tool profiles, Backplot and Solid verification, Axis limits. | 02:35 min 12/3/2007 |
| <input type="checkbox"/> | ws1011a - Workshop: Lathe Programming - Part 1 View Segment | Unique aspects of Mastercam Lathe. Orienting your part file for Turning. Setup of Stock and Chuck. Programming the Part. | 33:05 min 3/19/2008 |
| <input type="checkbox"/> | ws1011b - Workshop: Lathe Programming - Part 2 View Segment | Unique aspects of Mastercam Lathe. Orienting your part file for Turning. Setup of Stock and Chuck. Programming the Part. | 28:47 min 3/19/2008 |

Unmark

MR2 Updates

| Segment | Description | Time/Rev Date |
|--|--|-----------------------|
| <input type="checkbox"/> 6701 - MR2: Auto Cursor View Segment | Auto cursor visual cues, S toggle snapping on and off. | 01:00 min 8/8/2007 |
| <input type="checkbox"/> 6702 - MR2: Calculator View Segment | Perform calculations in input fields. | 01:15 min 8/8/2007 |
| <input type="checkbox"/> 6703a - MR2: Design Enhancements - Part 1 View Segment | Deleting associative entity options | 00:38 min 8/8/2007 |
| <input type="checkbox"/> 6703b - MR2: Design Enhancements - Part 2 View Segment | Xform cancel without undoing. | 00:29 min 8/8/2007 |
| <input type="checkbox"/> 6703c - MR2: Design Enhancements - Part 3 View Segment | Xform drag - new options | 01:02 min 8/8/2007 |

| | | | |
|--------------------------|---|--|------------------------|
| <input type="checkbox"/> | 6704 - MR2: Interrupt Mode View Segment | Interrupt a function to perform another | 01:03 min 8/8/2007 |
| <input type="checkbox"/> | 6705 - MR2: Invert Selection View Segment | Invert selection button | 00:37 min 8/8/2007 |
| <input type="checkbox"/> | 6706b - MR2: Levels Manager View Segment | New features of Levels Manager: Modless, Second Monitor, Filter | 01:37 min 8/20/2007 |
| <input type="checkbox"/> | 6707b - MR2: Operation Manager View Segment | Now dockable, Resize and float, Second monitor, Font & background customization | 01:06 min 8/20/2007 |
| <input type="checkbox"/> | 6708 - MR2: Save Some View Segment | Save files in different formats | 01:11 min 8/8/2007 |
| <input type="checkbox"/> | 6713 - MR2: Machine Definition List View Segment | Manage list options. Customize machine definitions to display. | 00:39 min 8/9/2007 |
| <input type="checkbox"/> | 6709 - MR2: Mirror Toolpath View Segment | Maintain Cutter Compensation | 01:17 min 8/9/2007 |
| <input type="checkbox"/> | 6716 - MR2: Facing Toolpath Start Point View Segment | Even number passes. Control climb or conventional directions. | 03:07 min 8/17/2007 |
| <input type="checkbox"/> | 6715a - MR2: 2d High Speed Peel Mill Toolpath 1 View Segment | Creating a Peel Mill Toolpath. Toolpath Driven with 2 Entities. Cut Parameters. Trochoidal Parameters. Rough Offset, Rounding Radius, Stepover. Back Feedrate. Finish Pass. Feedrate Override. | 08:26 min 8/15/2007 |
| <input type="checkbox"/> | 6715b - MR2: 2d High Speed Peel Mill Toolpath 2 View Segment | Creating a Peel Mill Toolpath. Toolpath Driven with 1 Entities. Trochoidal Parameters. Single Chain Only. | 03:53 min 8/15/2007 |
| <input type="checkbox"/> | 6710 - MR2: Boundary Creation View Segment | Boundaries for Surface / Solid machining. Create boundaries relative to tool size and stock to leave. | 01:18 min 8/9/2007 |
| <input type="checkbox"/> | 6711a - MR2: HST Enhancements - Part 1 View Segment | Linking Enhancements. Incremental clearance controls. | 00:30 min 8/9/2007 |
| <input type="checkbox"/> | 6711b - MR2: HST Enhancements - Part 2 View Segment | Feed and Speed Enhancements. HST Speed & Feed values: Surface feet per minute and Feed per Tooth. | 01:10 min 8/9/2007 |

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|--------------------------|--|---|------------------------|
| <input type="checkbox"/> | <p><u>6712 - MR2: HST Waterline Arc Moves</u></p> <p>View Segment</p> | HST 3D Arc move enhancements. Waterline 3D Arc move transitions. 3D Arcs supported in Helix and Ramp for: Core roughing, Area clearance, Rest roughing and Horizontal area. | 01:01 min 8/9/2007 |
| <input type="checkbox"/> | <p><u>6714 - MR2: Swept Surface</u></p> <p>View Segment</p> | Generates fewer control points. More flexibility. Use Vectors normal to another surface. | 01:42 min 8/9/2007 |
| <input type="checkbox"/> | <p><u>6718 - MR2: Startup Utility</u></p> <p>View Segment</p> | Accessing the Startup Utility. Active Products. Net Hasp Options. Custom Profile / Desktop Shortcut | 02:08 min 9/25/2007 |
| <input type="checkbox"/> | <p><u>6719 - MR2: Print Screen Options</u></p> <p>View Segment</p> | File Print. Print Preview. Centering the Print Image. Orientation, Portrait or Landscape. Margins, Scaling, Color, Name / Date, Info. Configuration Options. | 03:50 min 9/25/2007 |
| <input type="checkbox"/> | <p><u>6720 - MR2: Customizable Places</u></p> <p>View Segment</p> | Customize "Shortcut" Locations. Add and Remove Common Folders. | 01:23 min 9/25/2007 |
| <input type="checkbox"/> | <p><u>6721 - MR2: Surfaces from Solids Options</u></p> <p>View Segment</p> | Create Surfaces From Solid Models. Create from Single Face or Full Solid Body. Set Attributes. Keep or Delete Original Solid. | 02:27 min 9/25/2007 |
| <input type="checkbox"/> | <p><u>6722 - MR2: Create Lines / Point Dynamic</u></p> <p>View Segment</p> | Create Point / Line Dynamic Along Entity. Entity to create: Point, Line, or Both. Setting Distance "Along" Value. Setting Along Distance Using Geometry. Offset Distance and Side, (Left, Right, Both). | 04:53 min 9/25/2007 |
| <input type="checkbox"/> | <p><u>6723 - MR2: Analyze Distance Units and Precision</u></p> <p>View Segment</p> | Setting the Level of Precision for Analyze. Analyze Distance or Analyze Entity. Setting Defaults in System Configuration. | 01:37 min 9/25/2007 |

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Zip 2 Go

| Segment | Description | Time/Rev Date |
|--|--|------------------------|
| <p><u>6220 - Zip 2 Go Part 1</u></p> <p>View Segment</p> | Part 1: Access the Zip 2 Go utility, How to unzip and email Z2G files. | 02:30 min 4/28/2008 |
| <p><u>6221 - Zip 2 Go Part 2</u></p> <p>View Segment</p> | Part 2: More on the Zip 2 Go utility. | 02:50 min 4/28/2008 |

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Workshop Video Series

| Segment | Description | Time/Rev Date |
|---------|-------------|---------------|
|---------|-------------|---------------|

| | | | |
|--------------------------|--|--|------------------------|
| <input type="checkbox"/> | ws1001 - Workshop: Intro to Mill/Turn for C/Y Axis View Segment | Workshop Video Series: An Introduction to Mill/Turn for C/Y Axis Machines. This is intended for Mastercam users who understand the fundamentals of Mastercam and are ready to setup for Mill/Turn centers with C and/or Y axis. (Un-edited screen capture of a training webinar) | 33:56 min 6/29/2007 |
| <input type="checkbox"/> | ws1002 - Workshop: Mill Level 3 - Rest Machining View Segment | What is Rest Machining? Available Rest Machining toolpaths. What are the differences? Choosing your stock method. Other operation vs. Rough tool. (Un-edited screen capture of a training webinar) | 47:59 min 7/11/2007 |
| <input type="checkbox"/> | ws1003 - Workshop: Multi-Sided Part Machining (Mill 1-3) View Segment | What are the benefits? What tools are used? Posting individual files. Planes, Views and WCS. (Un-edited screen capture of a training webinar) | 42:40 min 7/18/2007 |
| <input type="checkbox"/> | ws1004 - Workshop: Highfeed Optimization View Segment | What is Highfeed, Guidelines for highfeed machining, calculating corner acceleration, feedrate smoothing, highfeed dialogs. (Un-edited screen capture of a training webinar) | 52:52 min 8/8/2007 |
| <input type="checkbox"/> | ws1005a - Workshop: Tombstone Machining - Part 1 View Segment | Planning file creation and set up. Merging parts and sub-programing - Part 1 (Un-edited screen capture of a training webinar) | 23:04 min 9/7/2007 |
| <input type="checkbox"/> | ws1005b - Workshop: Tombstone Machining - Part 2 View Segment | Planning file creation and set up. Merging parts and sub-programing - Part 2 (Un-edited screen capture of a training webinar) | 28:29 min 9/7/2007 |
| <input type="checkbox"/> | ws1006a - Workshop: Machine Control Definition - Part 1 View Segment | Creating, configuring and managing machine & control definitions. How to run files from a network. Modifying basic MC & CD settings. Part 1 (Un-edited screen capture of a training webinar) | 31:57 min 8/8/2007 |
| <input type="checkbox"/> | ws1006b - Workshop: Machine Control Definition - Part 2 View Segment | Creating, configuring and managing machine & control definitions. How to run files from a network. Modifying basic MC & CD settings. Part 2 (Un-edited screen capture of a training webinar) | 35:15 min 8/8/2007 |
| <input type="checkbox"/> | ws1007a - Workshop: Introduction to Wire EDM - Part 1 View Segment | Set up and programing of Wire EDM. Basic requirements for wire geometry. Part 1 (Un-edited screen capture of a training webinar) | 35:23 min 8/31/2007 |
| <input type="checkbox"/> | ws1007b - Workshop: Introduction to Wire EDM - Part 2 View Segment | Creating thread cut points. Breaking geometry perpendicular to a threadpoint. Chain wire geometry. Part 2 (Un-edited screen capture of a training webinar) | 30:15 min 8/31/2007 |

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|--------------------------|---|---|-------------------------|
| <input type="checkbox"/> | ws1008a - Workshop: Lathe Tooling Part 1 View Segment | Lathe Tool setup. Holder & Insert Libraries. Modifying existing tools. Creating custom tools. Part 1 (Un-edited screen capture of a training webinar) | 23:48 min 9/12/2007 |
| <input type="checkbox"/> | ws1008b - Workshop: Lathe Tooling Part 2 View Segment | Lathe Tool setup. Holder & Insert Libraries. Modifying existing tools. Creating custom tools. Part 2 (Un-edited screen capture of a training webinar) | 23:08 min 9/12/2007 |
| <input type="checkbox"/> | ws1009a - Workshop: Creating Surfaces Part 1 View Segment | What is a surface? What other methods can be used? Creating surfaces from solids and Solids from surfaces. | 27:39 min 10/25/2007 |
| <input type="checkbox"/> | ws1009b - Workshop: Creating Surfaces Part 2 View Segment | Hands on: Net / Coons, Fence, Fillet surface, Surface trim / untrim and extend, Blend. | 32:40 min 10/25/2007 |
| <input type="checkbox"/> | ws1010a - Workshop: Router: Nesting Solidworks Assemblies - # 1 View Segment | Part 1: Set WCS, Creating a new toolpath, Moving the part to another level / changing the color, Adding a part label | 27:14 min 12/14/2007 |
| <input type="checkbox"/> | ws1010b - Workshop: Router: Nesting Solidworks Assemblies - # 2 View Segment | Part 2: Set WCS, Creating a new toolpath, Moving the part to another level / changing the color, Adding a part label | 19:23 min 12/14/2007 |
| <input type="checkbox"/> | ws1011a - Workshop: Lathe Programming - Part 1 View Segment | Unique aspects of Mastercam Lathe. Orienting your part file for Turning. Setup of Stock and Chuck. Programming the Part. | 33:05 min 3/19/2008 |
| <input type="checkbox"/> | ws1011b - Workshop: Lathe Programming - Part 2 View Segment | Unique aspects of Mastercam Lathe. Orienting your part file for Turning. Setup of Stock and Chuck. Programming the Part. | 28:47 min 3/19/2008 |
| <input type="checkbox"/> | ws1012a - Workshop: Updating to X2 - Part 1 View Segment | Part 1 of 3. Challenges of not being current. Productivity Cycle Graph. X2 MR2 – What are the benefits? | 34:15 min 7/14/2008 |
| <input type="checkbox"/> | ws1012b - Workshop: Updating to X2 - Part 2 View Segment | Part 2 of 3. Challenges of not being current. Productivity Cycle Graph. X2 MR2 – What are the benefits? | 30:28 min 7/14/2008 |
| <input type="checkbox"/> | ws1012c - Workshop: Updating to X2 - Part 3 View Segment | Part 3 of 3. Challenges of not being current. Productivity Cycle Graph. X2 MR2 – What are the benefits? | 25:22 min 7/14/2008 |

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