



Edgecam Milling Cycles Group

This is a collection of three Edgecam training courses that explore the core toolpath commands used for prismatic milling, 3D contour milling, and 5-axis simultaneous machining. Each class covers a specific industry segment and can be taken independently of the other courses in this group. This approach provides users with the flexibility to take the training most applicable to their current needs.

Users that have used Edgecam for several years should consider taking one or more of these courses as refresher training. These courses focus on how the current software technology for toolpath creation should be used. Users that were trained several years ago and feel uncomfortable with the latest Edgecam software technology will come away with many useful ideas that translate directly to improved productivity.

Courses

- Edgecam Prismatic Milling Applications
- Edgecam 3D Contour Milling Applications
- Edgecam 5 Axis Simultaneous Machining Applications

Duration

Each course in this group is 1 day. Students can attend one or more segments, and pay only for the number of training courses taken.



Edgecam 3D Contour Milling Applications

This 1-day training course is designed for the Edgecam user seeking to acquire a deeper understanding of Edgecam's primary machining cycles used for 3D contour mill toolpath. Building on the Edgecam Workflow introduction, students gain the skill required to create toolpath to machine non-prismatic parts (such as parts common to the tooling and mold & die industries). Students learn both general information that is widely used throughout the software, as well as specific capabilities widely desirable for "3 axis" milling.

Objectives

After completing the course, students should be able to:

- Select appropriate mill cycles to create 3D mill toolpath "from scratch".
- Confidently produce mill toolpath for any part requiring 3D milling, ranging from simple to complex.
- Differentiate between the basic inputs required to build toolpath and the specialty options that provide flexibility to adapt to a wide variety of machining requirements.

Prerequisites

- Complete the **Edgecam Workflow** course, or have similar basic software knowledge.
- Experience using Edgecam, with at least 6 completed programs that have run in CNC milling machines recommended.
- Knowledge of CNC milling applications.
- Users are strongly encouraged to take the **Edgecam Prismatic Milling Applications** course first, or have completed it previously. Familiarity with prismatic milling is helpful, as many parts requiring 3D contour milling also have prismatic machining requirements.
- Proficient with Microsoft Windows. Unless otherwise specified, workstations currently run on Windows 7 operating system.

License Requirements

This course is applicable to any of the following Edgecam licenses:

- Edgecam Standard Milling and higher
- Edgecam Standard Turning and higher
- Edgecam Standard Production and higher

Topics Covered

Preparation for Toolpath Creation

- Creating Functional Surfaces
- Face & Cap features
- Boundaries

Toolpath Control

- Lead & Link Move
- Influencing Toolpath using Boundaries, Depth, Patches, and Check Surfaces
- Background Processing & Multi-Core Processor Support

Contour Milling Cycles

- Roughing & Plunge Roughing cycles
- Basic Finishing using Parallel Lace & Profiling cycles
- Specialized Finishing Cycles