



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 Prismatic 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 prismatic mill toolpath. Building on the Edgecam Workflow introduction, students gain the skill required to configure milling cycles to obtain the desired toolpath, rather than simply accepting the results that Edgecam's toolpath accelerators produce. Students learn both general information that is widely used throughout the software, as well as specific capabilities widely desirable for "3+2" and "live tool" milling.

Please note that while this course is focused on milling applications, it should be considered essential for customers that have turning centers with live tool milling capability. This class provides a solid foundation for prismatic milling in VMC & HMC, and also in mill/turn CNC machines.

Objectives

After completing the course, students should be able to:

- Create prismatic mill toolpath "from scratch" for solids models, features, and wireframe geometry.
- Confidently produce prismatic mill toolpath for any part, ranging from simple to complex.
- Differentiate between the basic inputs required to build toolpath and the specialty options that provide the 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, or mill/turn if appropriate.
- 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

Prismatic Milling Cycles

- Roughing cycle, including multi-tool Rest Roughing
- Part Finishing with Profiling and Slot cycles
- Drilling, Reaming, Boring, Tapping, Back Counterbore, and Helical Milling using the Hole cycle
- Thread Milling cycle
- Deburring using the Chamfering cycle
- Simple Engraving using the Text cycle

Toolpath Control

- Controlling Start Points
- Lead & Link Moves
- Influencing Toolpath using Boundaries and Depth
- Leveraging solid model intelligence