

## **DAPRA MILLING TRAINING – MIDWEST TECH CENTER – ROCKFORD, IL**

Dapra milling training provides real-world applications training for:

- Operators
- Programmers
- Manufacturing Engineers
- Setup personnel
- Machinists
- Tool/die makers
- Moldmakers



### **Dapra Milling Training – Goals**

- Improve general milling applications knowledge base
  - Milling principles
  - Formulas
  - Tool selection and optimization, application-based
  - Troubleshooting
- Improve working knowledge of indexable milling products, including:
  - Cutter applications
  - Carbide geometries and grades selection
  - Workholding applications and capabilities (supportive role)

## **Some Specific Items Covered:**

- Climb vs. conventional milling
- Long reach milling considerations
- Speeds and feeds (choosing / calculating)
- Toolholders (pros / cons of various styles)
- Air vs. coolant (when to use each)
- Grade selection
- Geometry selection
- Application of cutting tools according to machine capabilities
- Soft vs. hard milling techniques
- Chip thinning (axial and radial)
- Chip formation based on cutting geometry
- Tool pressure based on cutting geometry
- Course pitch vs. fine pitch tooling
- Tool path suggestions
- Troubleshooting / wear and failure characteristics



## **Product Types Covered (discussed and run during training):**

- Square Shoulder (90-degree)
- High Feed
- Double-sided button
- Single-sided button, octagon)
- Ball Nose
- Workholding (High-pressure vises)
- Spindle-mounted, dot-peen marking

Registration is taken on a first-come first-served basis.

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