CERTIFIED METALCUTTING PROFESSIONAL (CMP) PROGRAM











GOAL: To advance the metalcutting profession and to recognize its practitioners. A CMP (Certified Metalcutting Professional) designation following your name communicates that you possess a solid foundation of metalcutting experience and education! Our course provides the essential preparation necessary to pass Kennametal's CMP exams — ultimately resulting in your CMP certification.

Dramatically improve profitability, productivity, and part quality with the knowledge you'll gain from the Kennametal CMP program. The program includes:

- · clearly defined class outlines and objectives
- interactive note-taking
- pop-up definitions for all technical terminology
- · tools to easily track your course progress

ALL COURSES ARE ONLINE — AND AVAILABLE 24/7 USING THE LATEST E-LEARNING TECHNIQUES AND FORMAT!

EDUCATION CONTENT

Our CMP program clearly and concisely explains the metalcutting process and provides defined and common tool-selection criteria based on proven cause and effect relationships among three categories of tool design and application factors.

CMP courses are divided into three sections:

 ENGINEERING PRINCIPLES — Identifies tool design features and application factors used to effect change in tool performance. Common terminology used for all metalcutting tools, all processes, is established.

Five courses are included:

- Mechanics of Metalcutting
- Cutting Edge Materials
- Operating Conditions, Tool Life, Productivity
- Tool Failure Analysis
- Surface Finish
- **2. TURNING PROCESSES** How to apply the Engineering Principles selection criteria to Lathe and Turning Center applications.

Six courses are included:

- Toolholder Selection
- Boring Bar Selection
- Insert Selection
- Grooving Tool Selection
- · Cut-Off Tool Selection
- Single-Point Threading
- MACHINING CENTER PROCESSES How to apply the Engineering Principles selection criteria to Machining Center applications.

Four courses are included:

- Face Mill Selection
- End Mill Selection
- Drill Selection
- Tap Selection



WHO SHOULD ATTEND?

CMP is specifically designed for the working engineer and other metalcutting professionals involved in tool management, tool selection, process optimization, CNC programming, and trouble-shooting.

INSTRUCTION

All courses are online — and available 24/7 using the latest e-learning techniques and format.

Graphics and videos support all course content.

CERTIFICATION REQUIREMENTS

Testing follows completion of each course. To qualify for certification, you must score 80% or higher per test. Final exams may be retaken if, on first try, you do not meet the 80% score. However, you must complete all courses and exams within one year.

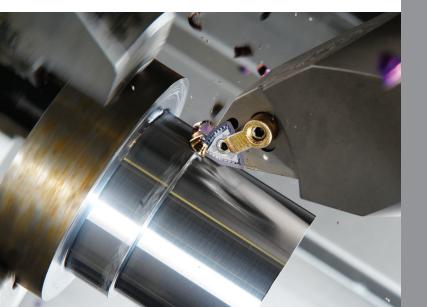
Professionals who receive CMP certification must also complete the Continuing Certification Requirements program.

REGISTRATION INFORMATION

English ANSI, English ISO, German ISO, French ISO, Spanish ISO, Italian ISO, and Chinese ISO versions are available. Your registration will give you complete access to all courses for one year from when you start the program.

TO REGISTER, VISIT www.kennametal.com

Click on the "Resources" tab, then click on the "Training" link.



YOUR E-LEARNING CENTER CONTACTS

Asia Pacific:

Tel: +86 21 38608358

E-mail: k-ap-knowledge.center@kennametal.con

Germany:

Tel: +49 911 9735 299

E-mail: k-de-knowledge.center@kennametal.com

India:

Tel: +91 80 28394321

E-mail: k-in-knowledge.center@kennametal.com

North America:

Tel: +1 724 539 2979

E-mail: k-na-knowledge.center@kennametal.com



WORLD HEADQUARTERS

Kennametal Inc.

1600 Technology Way Latrobe, PA 15650

Tel: +800 446 7738 (United States and Canada) E-mail: ftmill.service@kennametal.com

EUROPEAN HEADQUARTERS Kennametal Europe GmbH

Rheingoldstrasse 50 CH 8212 Neuhausen am Rheinfall Switzerland

Tel: +41 52 6750 100

E-mail: neuhausen.info@kennametal.com

ASIA-PACIFIC HEADQUARTERS Kennametal Singapore Pte. Ltd.

3A International Business Park Unit #01-02/03/05, ICON@IBP Singapore 609935

Tel: +65 6265 9222

E-mail: k-sg.sales@kennametal.com

INDIA HEADQUARTERS **Kennametal India Limited** CIN: L27109KA1964PLC001546

8/9th Mile, Tumkur Road Bangalore - 560 073

Phone: +91 080 22198444 or +91 080 43281444 E-mail: bangalore.information@kennametal.com

www.kennametal.com