

New —

**In your own office or home
at your own pace . . .**

*The Manufacturing Engineering Certification
Institute of the Society of Manufacturing
Engineers is pleased to present the . . .*

CERTIFIED MANUFACTURING ENGINEER HOME STUDY REVIEW COURSE

- Prepare for the CMfgE exam at your own pace and convenience
- With a toll-free 800 number and one-on-one guidance from your personal instructor/partner
- Thirty day FREE TRIAL of all course material

**A
Completely New
home study
program with
one-on-one
guidance from
your personal
instructor/
partner . . .**



PREPARE FOR THE CMfgE EXAM

BECOME A CERTIFIED MANUFACTURING ENGINEER (CMfgE) OR JUST DEVELOP THE SKILLS AND KNOWLEDGE OF ONE

Do you plan on taking the CMfgE exam? Do you want to develop the skills and knowledge needed for success as a manufacturing engineer in today's highly competitive manufacturing environment?

If your answer to either of the above questions is "Yes," SME's completely new learning-at-home experience, "The Certified Manufacturing Engineer Home Study Review Course," is for you. Derived directly from SME's highly acclaimed workshop on the same subject, this unique new program covers the key technical and managerial areas that every manufacturing engineer must know.

WHAT YOU CAN LEARN IN 50 HOURS . . . OR LESS

You'll learn all about turning, drilling, and milling operations; how to calculate speed and feed rates, material removal rates, and motor power; how to use the Taylor Tool Life model to calculate expected tool life.

You'll learn the concepts of manufacturing costs estimating, capacity analysis, and workstation utilizations; you'll learn to use precedence diagrams and the largest set rule for balancing production E lines; you'll learn about molding, casting, and metal forming processes, and how to calculate blanking forces.

INVENTORY MANAGEMENT, STATISTICAL PROCESS CONTROL, AND ENGINEERING ECONOMICS

Five entire units of the course are devoted to inventory management and scheduling, statistical process control, and engineering economics. You'll learn about Master Production Scheduling and Material Requirements Planning; you'll learn to calculate critical ratios and evaluate production schedules; you'll learn to calculate key statistical parameters, prepare and analyze control charts, and calculate the Process Capability Ratio.

You'll learn to calculate depreciation, use the Accelerated Cost Recovery System, and determine breakeven points, payback periods, and net present value of an investment, and much more.



HOW THE COURSE WORKS

When you enroll, you'll receive your two "Certified Manufacturing Engineer Home Study Review Course" loose-leaf binders and course materials. Each of your twelve course units includes the following:

- Specific, to-the-point discussion of a manufacturing engineering area,
- Examples which show you how to apply the principles you've learned, and
- One or more Skill Development Exercises which help you apply your newly learned skills and knowledge.

You'll send your completed Skill Development Exercises to your personal instructor/partner at the MGI Management Institute, Hawthorne, New York. The exercises will be returned to you with appropriate comments and recommendations.

A TOLL-FREE 800 NUMBER FOR ALL YOUR QUESTIONS

In addition to the review of your Skill Development Exercises, we'll give you a TOLL-FREE 800 number. Any time you have a question just call, and our instructor will call you back at your convenience.

WHO SHOULD TAKE THIS COURSE

Anyone planning to take the Certified Manufacturing Engineer (CMfgE) exam or anyone who wants a concise, targeted review of manufacturing engineering principles and practices.

BRUSH UP ON YOUR MANUFACTURING ENGINEERING KNOWLEDGE AND SKILLS

LET A RECOGNIZED EXPERT HELP YOU PREPARE FOR THE CMfgE EXAM

Dr. Jeffrey Abell, CMfgE, is a Senior Project Engineer, Advanced Development Group, Inland Fisher Guide Division of General Motors, Troy, Michigan. He was previously an Assistant Professor of Manufacturing Systems Engineering at GMI Engineering and Management Institute, Flint, Michigan. He has taught at both the graduate and undergraduate levels in topics such as Manufacturing Processes, Simulation, Robotics, Computer Integrated Manufacturing Systems, and Fundamentals of Manufacturing Engineering. Dr. Abell has also provided consulting services to the manufacturing industry.

WHEN YOU FINISH . . .

You can complete each volume of the Certified Manufacturing Engineer Home Study Review Course in about 25 spare-time hours. When you do, you'll have earned 5.0 CEUs (2.5 for each volume) and you'll receive a two-color, signed Certificate of Completion testifying to your accomplishment.



Most important of all, you'll have greatly enhanced your preparation for the CMfgE exam as well as your ability to contribute to your firm's manufacturing success, and, as a direct result, you'll gain the recognition and rewards which accompany such contributions.

ENROLLMENT INFORMATION

You'll find detailed information for enrolling in the Certified Manufacturing Engineer Home Study Review Course on the back page of this brochure.

**ENROLL IN THIS VITAL NEW
COURSE TODAY!**

COURSE CONTENT

VOLUME ONE

Unit.	Content
Unit One	Material Removal Processes: All About Turning Operations
Unit Two	Material Removal Processes: Drilling, Milling, and Tool Life
Unit Three	Costs Estimating: Elements, Standards, and Optimum Cutting Speeds and Feeds
Unit Four	Capacity Analysis: Workstation and Machine Utilization; Identifying Bottlenecks
Unit Five	Line Balancing: Precedence Diagram, Weight Positional Approach, and Largest Set Rule
Unit Six	Molding and Casting Processes

VOLUME TWO

Unit	Content
Unit Seven	Metal Forming Processes: Blanking Forces and Blank Sizes
Unit Eight	Inventory Management and Scheduling: EOQ, ABC Analysis, and Master Production Schedules
Unit Nine	Inventory Management and Scheduling: Evaluating Production Schedules; Critical Ratios; Push vs. Pull Systems
Unit Ten	Statistical Methods for Manufacturing Control: Assembly vs. Component Tolerances; Control Charts; Patterns and Causes
Unit Eleven	Process Capability, Experimental Design and Reliability; The Process Capability Ratio; Standard Error and the t-Distribution
Unit Twelve	Engineering Economy: Depreciation, Accelerated Cost Recovery System; Payback Period, Break-even Analysis, and Present Value Analysis

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ENROLLMENT INFORMATION

SAVE \$45 BY PREPAYING YOUR ENROLLMENT

A SPECIAL DISCOUNT PRICE— SAVE A FULL \$45.00

The member list price for the Certified Manufacturing Engineer Home Study Review Course is \$332.95*. However, SME is pleased to offer you a full \$45.00 discount for prepayment, so that, as shown below, your special discount price is only \$287.95.

ONE LOW ENROLLMENT FEE. . . AND NO OTHER COSTS

Member \$332.95* (Prepaid \$287.95)
Non-Member \$372.95* (Prepaid \$327.95)

*All prices include \$7.95 shipping and handling

Your one low price includes all course material, review and detailed comment on all your Skill Development Exercises, and personal response to every question you have. And remember, that's all it costs...no time away from work, no travel, no other costs of any kind.

SEND FOR YOUR FREE TRIAL TODAY

Use the Enrollment Form

TOLL FREE TELEPHONE ENROLLMENT

JUST CALL 1-800-932-0191

Or use our fax number 914-428-0773



YOUR 30 DAY FULL MONEY BACK GUARANTEE

We offer you a very simple guarantee—send us your order with your payment or credit card charge information. We'll send you your course material by return mail. Review the course at your leisure for 30 full days.

If it's not exactly what you want, simply return the material to us, unused, and we'll immediately refund your full enrollment fee or cancel your invoice.

CONTINUING EDUCATION FOR MANUFACTURING PROFESSIONALS

This course was developed and is conducted for SME by the MGI Management Institute, Hawthorne, NY.

For over twenty-five years, MGI has been a leader in continuing education for the professions. Among its many clients are APICS, the National Society of Professional Engineers, and, of course, the Society of Manufacturing Engineers. MGI has provided and continues to provide practical, up-to-the minute self-study experience for many hundreds of architects, engineers, and other professionals.



FREE TRIAL ENROLLMENT FORM

To: MGI Management Institute
12 Skyline Drive, Hawthorne, NY 10532

YES, I want to develop my fundamentals of manufacturing knowledge and skills and prepare for the CMfgE exam. Please enroll me in the Certified Manufacturing Engineer Home Study Review Course. My payment (or credit card charge) in the amount of \$ _____ is enclosed as shown at right.

I understand this includes all course material, processing of all my Skill Development Exercises, and personal response to all my questions.

I understand further that if I'm not completely satisfied with the material, I may return it, unused, within 30 days for a full and immediate refund.

*Purchase orders are required for all unpaid orders, which will be billed at the *list price* for the course.

TOLL FREE TELEPHONE ORDER

Just call 1-800-932-0191

Fax 914-428-0773



Name _____

Title _____

Company _____

Address _____

City _____

State _____ Zip _____

PAYMENT INFORMATION

Course Price \$ _____

Postage & Handling \$7.95

Total Price \$ _____

Check enclosed (payable to MGI)

Purchase order enclosed*

Charge the above amount to my credit card as shown below:

MasterCard VISA AMEX

Acct. No. _____

Expiration Date _____

Signature _____