

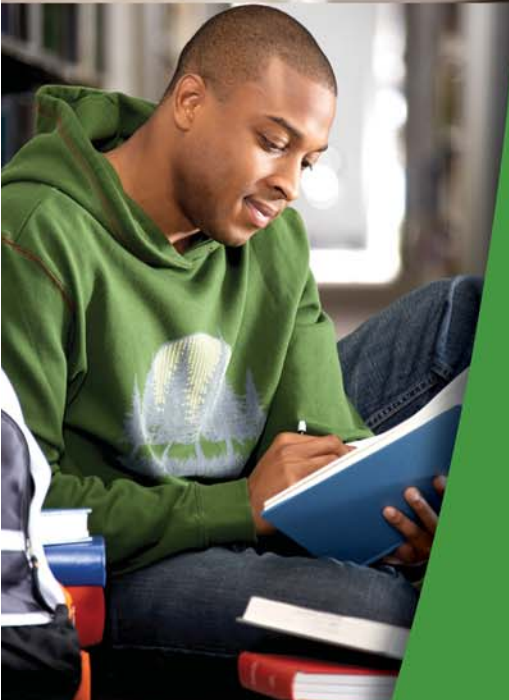
SME: Your Partner in Education



Educating future
manufacturing
professionals

Share Knowledge:
Get Published

Tools to Illustrate
Classroom Concepts



Measurements through
Outcome Assessments



www.sme.org | 800.733.4763

SME is the primary source for knowledge dissemination for the broad field of manufacturing engineering and technology. Beginning with the SME Education Foundation (SME-EF), SME-EF inspires and encourages America's youth to excel in Science, Technology, Engineering and Math (STEM) through specific programs, grants and scholarships. As these students enter into college, our message remains strong: careers in manufacturing are exciting, challenging, and rewarding. Therefore, high-quality manufacturing-oriented education programs must exist at every level – associate, bachelor, masters, and doctorate – to ensure that industry's needs for in-depth knowledge and skills are met.

SME's academic tools are designed to support the transfer of knowledge from classroom to real-life careers. As careers become established and leaders take shape, these key contributors give back by sharing their acquired knowledge through active participation within SME, becoming published and passing their legacy along to the next generation of manufacturing workers.

SME strongly supports the continued growth of manufacturing-named programs that prepare the next generation of manufacturing workers. **SME is your partner in education.**

SHARE KNOWLEDGE

By Becoming a Published Author, Editor/Reviewer, Contributor, Mentor and more

Interested in authoring a book or contributing to SME's video content?

SME provides assistance in all stages of book publishing from supporting research, editing, layout and cover design to marketing and distribution. All SME books and videos are actively promoted in national and international markets through its distributor network, SME trade shows, conferences and targeted direct mail promotion to specific technical communities.

Publish research, present technical papers.

In addition, SME offers opportunities to submit and/or review written technical papers, research papers and articles. These mediums are an important way to share information with our members, technical communities and chapters and can result in additional activities such as webinars or conference speaking.

If you have any suggestions or writing plans, we encourage you contact SME Book and Video Publications at publications@sme.org.

For guidelines about how to submit your book proposal to SME and more information, visit www.sme.org/authors or call 800.733.4763.

To publish research, visit www.sme.org/NAMRI



INDUSTRY INSIGHT & PROCESS IMPROVEMENT

The Shingo Prize for Research and Professional Publication 2010 Award Winner

- NEW! *Kaizen Event Fieldbook* (BK09PU16)

Manufacturing Insights Video Series www.sme.org/mi

- Each program brings together experts, companies and educators who generously share best practices from the forefront of evolving manufacturing technologies

JOURNALS & PERIODICALS

- *Journal of Manufacturing Systems* (JMS) and *Journal of Manufacturing Processes* (JMP)
- Transactions of NAMRI/SME
- *Manufacturing Engineering*[®] magazine's Industry Yearbook Series www.sme.org/yearbooks
- SME Technical Papers

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STRENGTH IN MANUFACTURING

Program Measurements Through SME's Outcome Assessments

Add to your credentials while helping students gain a valuable credential as well. In addition, prepare your students (and give them an edge) for the workplace with relevant technical, practical and managerial knowledge by administering an outcome assessment exam for your academic curriculum.

Outcome assessments are the preferred metric for 4-year academic institutions to verify program effectiveness and productivity, while supporting ABET A-K accreditation requirements. You'll have an externally validated measure of student achievement, plus unbiased feedback on the knowledge transfer that occurred within your academic program. www.sme.org/certification

Your Benefits of using SME Outcome Assessments

- Support ABET or other assessment requirements
- Document trends in student & program performance
- Ensure your program is meeting its objectives
- Guide future curriculum content decisions
- Ensure knowledge transfer and that student knowledge links with industry standards
- Support grant proposals
- Give your students an advantage upon graduation and entering the workforce

Validating the Green Manufacturing



Certified Manufacturing Technologist (CMfgT) Exam

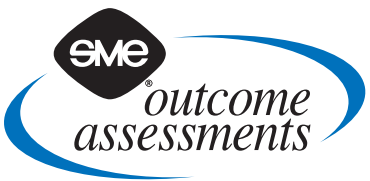
Demonstrates a person's knowledge of the fundamentals of manufacturing and is targeted for individuals in undergraduate programs. www.sme.org/certification

Certified Manufacturing Engineer (CMfgE) Exam

Demonstrates comprehensive knowledge of manufacturing processes and practices and is best used for students in graduate programs with work experience. www.sme.org/certification

EET Outcome Assessment

SME has launched a new outcome assessment for 2- and 4-year colleges and universities, working as a strategic partner with IEEE's Electrical and Computer Engineering Technology Department Heads Association (ECETDHA). It launched in fall 2009 to all EET programs wanting the outcome assessment to help support their ABET (or other) accreditation requirements. SME wants to work with educators to further the standardization of knowledge and the transfer of that knowledge from educator to student among colleges/universities. www.sme.org/eet



The Future of Manufacturing Operations: Lean & Green



Lean Bronze Certification Exam Only

Demonstrates solid understanding of basic lean principles and tools, and the ability of tactical implementation to drive improvement and show measurable results. The Lean Online Review Program helps candidates prepare for the Lean Bronze Certification exam. www.sme.org/leancert

Green Manufacturing Specialist Certificate

SME has partnered with the Purdue University Technical Assistance Program (TAP) to establish the green outcome assessment exam that candidates can take to earn the Green Manufacturing Specialist Certificate. This program is designed to give employees a set of skills that has real value and transferability in today's economy, helping to define the "Green worker". Launched May 2010, this program is open to all education and training programs aligned with the Green Body of Knowledge. www.sme.org/green



ACADEMIC TOOLS

that bring life to classroom concepts!

Use SME's book and video content to achieve your educational objectives and support the knowledge required of tomorrow's workforce. Visit www.sme.org/store to search on any of the following resources.

FUNDAMENTAL STUDY & ASSESSMENT

Prepare course outcomes!

- *Fundamentals of Manufacturing, 2nd Edition* (BK01PUB13); Supplement (BK05PUB2); and Workbook (BK05PU65)

View manufacturing processes in action! www.sme.org/fmp

- *Fundamental Manufacturing Processes Video Series* — 44 titles to choose from!
A DVD sampler of the series is also available

Arrives Fall 2010!

- *Manufacturing Processes & Materials, 5th Edition* (4th Edition now on sale! BK00PUB8) and Instructor's Guide

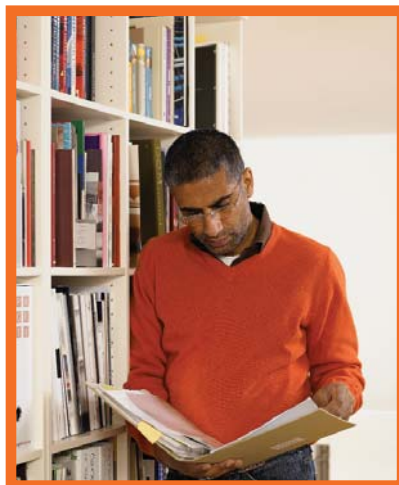
COMPLETE TRAINING PACKAGES

Fundamentals of Tool Design www.sme.org/ftd

- NEW! *Fundamentals of Tool Design, 6th Edition* with sampler DVD (BK10PUB2) and Instructor's Guide (BK10PUB3)
- *Fundamentals of Tool Design Video Series* — 9 programs sold as a package (PK10PUB2) or individually

Composites Manufacturing www.sme.org/cmvs

- *Fundamentals of Composites Manufacturing, 2nd Edition* with sampler DVD (BK07PUB26) and Instructor's Guide (BK08WBD2)
- *Composites Manufacturing Video Series* — 8 programs sold as a package (PK05PUB2) or individually



WE THINK MANUFACTURING IS COOL!

SME-EDUCATION FOUNDATION (SME-EF)

Through creativity and teamwork, engineers make the world a better place. To reach today's young learners, SME's Education Foundation focuses its efforts on venues where even the most reluctant students are enthused and excited about science, technology, engineering and mathematics (STEM). These programs include:

Gateway Camps designed for elementary students

Gateway Academies created as a project-based learning experiences for middle-school students

sMe Institute (summer Manufacturing experience), which directly links students to industry-specific careers

DID YOU KNOW?

In the summer of 2010, more than 9,000 students across the country will attend youth programs funded by the SME Education Foundation.

Advancing careers in manufacturing!

Unlike commercial publishers, revenue generated by SME's business endeavors such as *Manufacturing Engineering*[®] magazine, expositions, and workforce development programs help support the distribution of major grants and scholarships through the SME-EF.

To address the future workforce shortage in America, SME-EF launched a national fundraising campaign to secure funding for programs that address perceptions of manufacturing as a career. Each year the Foundation awards more than \$600,000 in scholarships and \$1 million in youth outreach funding.

Please join us in securing the future of manufacturing.

www.smef.org

www.careerME.org

www.manufacturingiscool.com



MEET, KNOW, GROW WITH SME MEMBERSHIP



Joining SME, with its long history and strong commitment to disseminate manufacturing knowledge worldwide, brings its members:

Everyone you want to MEET

Everything you need to KNOW

Everything you need to GROW

Your educator SME benefits include not only discounted membership rates on SME programs and activities but, more importantly, a direct connection to the pulse of manufacturing and the changes happening within manufacturing industries, which you can share with your students.

By aligning manufacturing practitioners and educators together, SME's goal is to share the breadth of knowledge, technologies and processes that span all manufacturing industries and disciplines.

Students can also enjoy these same benefits while jump-starting their career with access to SME's JobsConnection, scholarship opportunities, special student contests, events and programs, research information and by building key industry connections.

Commit to growing your career in manufacturing ... Join Today!

www.sme.org/join