

Curriculum Review Rubric

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Program/Materials Reviewed: CSTCC\_MET CAD Certificate Outline

College: Cincinnati State Technical and Community College

Reviewed by: Robert E. Speckert, Professor Emeritus, Miami University

Date: May 8, 2018

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Review Scale definitions:

Excellent: Review component is excellent, represents a “promising practice”, and is a model for replication.

Very good: Review component is complete and can be replicated.

Good: Review component is adequate but represents opportunities for improvement

Ineffective: Review component is weak and in need of significant improvement.

No or insufficient evidence: Review component was missing information and not able to be assessed.

**Program Overview Assessment:**

Program Overview	Excellent	Very Good	Good	Ineffective	No or Insufficient Evidence
1. Program Outcomes Clearly Stated and Measurable					X
2. Course objectives support one or more programs					
3. Program Outcomes aligned to occupational focus (industry skills and standards) and prepare students for appropriate industry certification/s.					X
4. Effective program structure (prerequisites, course sequence, stackable credential-structure provides a clear logical path to completion)			X		
Comments or Recommendations Specific to Program Overview					

<p>No program outcomes/goals are stated. There are no statements about alignment with industry occupations. Course content is applicable to this certificate and the courses will also align with other programs.</p>	
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# Robert E. Speckert

Professor Emeritus

Miami University, Department of Engineering Technology  
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## Education:

1975-1980 University of Cincinnati. Master of Business Administration Degree, Quantitative Analysis major.

1973-1975 Miami University, Oxford, OH. Bachelor of Science degree in Applied Science, Engineering Technology major.

1971-1973 Cincinnati Technical College. Associate of Applied Science degree, Engineering Technology major.

## Certifications:

- Certified Manufacturing Engineer (Society of Manufacturing Engineers)
- Academic Jonah (Avraham Y. Goldratt Institute)

## Additional Training: (some activities)

- Train the Trainer in Nano Technology, Penn State University, August 2009
- Nano Technology, Penn State University, May 2009
- Nano Technology, January 2009, Las Vegas (sponsored by NSF)
- Geometric Dimensioning and Tolerancing, March 2-3, 2008, Detroit, Michigan.
- Lab View workshops, National Instruments, various dates.
- Lean Manufacturing, Fanuc Robots, Mason, OH February 2005
- Academic Jonah Training on Theory of Constraints, Avraham Y. Goldratt Institute's program on Theory of Constraints/Continuous Improvement, Summer 1992
- Quality in Daily Work, Procter and Gamble's (P&G) Total Quality Management program, Spring 1992
- Team Member Training, Procter and Gamble's (P&G) Continuous Improvement program, Summer 1992
- Executive Decision Making, Avraham Y. Goldratt Institute's program on Theory of Constraints/Total Quality Management, Fall 1991

## Experience:

Jan. 1985 – Present: Miami University, 1601 University Blvd., Hamilton, OH 45011 (513-785-1810)

1985-1997: Associate Professor and Chair; 1997-2006: Professor and Chair; 2006-Present: Professor and Assistant Chair; 2013 Professor Emeritus

June 1975 - Jan 1985: Cincinnati Technical College - 1.5 years as Division Coordinator of Cooperative Education and Public Relations. 8.0 years as Instructor/Program coordinator for Electro-Mechanical Engineering Technology and Computer Integrated Manufacturing Technology. Spent 6 months at Cincinnati Milacron in customer training.

Sept. 1974 - Sept. 1975: Kenner Products, Cincinnati, OH. Computer Operator. I operated a Burrough's 3500 system processing a variety of business reports.

June 1973 - Sept. 1974: General Electric Company, Evendale, OH. Engineering Assistant.

## Consulting and Seminars Presented: (partial list)

2017 – Consultant for Lorain County Community College. Developed a Manufacturing Foundations Curriculum and pathway.

2017 – Served as Subject Matter Expert/Consultant on CNC programming curriculum for Cincinnati State Technical and Community College

2005-present Educational Consultant for Ohio Department of Higher Education, TechPrep, and others on various projects including curriculum review, curriculum development, program assessment, and continuous improvement.

2010-present Consultant, TechPrep of Greater Cincinnati

2006-2017 Consultant, Ohio Board of Regents, Transfer and Articulation

2006 Consultant, University of Cincinnati—College of Applied Science, Spring and Fall 2006. I worked with the administration on assessment processes.

2006-2007 Consultant for Tipco Punch, Inc, in Fairfield assisting them with quality control issues.

2004 Assessment Consultant, University of Cincinnati—College of Applied Science.

**Publications and Presentations:** (selected works)

- “Developing an Assessment Plan to Meet TAC/ABET Criteria 1-8” at the Rose-Hulman Best Assessment Practices VII, February 26-28, 2006.
- “Developing a Meaningful Assessment and Continuous Improvement Plan”, Best Assessment Processes VI, Rose Hulman, Terre Haute, IN, March 2004. Also presented in April 2005 at Best Assessment Processes VII by invitation.
- “Alternative Delivery of a Baccalaureate Degree in Engineering Technology”, October 24, 2000—Co-Presenters: R Speckert, D. Hergert , and D. Bickerstaff
- "TQM: The Topics, Tools and Techniques for Your Classroom", - League for Innovation in Community Colleges conference - November 1993 - Co authors: R. Speckert, P. Cantonwine and J. Streb.
- "Teaching Automated Manufacturing: Beyond Concept to Implementation" - Society of Manufacturing Engineer's Conference - November, 1992: Co-Authors J. Streb, P, Cantonwine and R. Speckert
- "Teaching Computer Integrated Manufacturing in the Interdisciplinary Classroom" - League for Innovation in Community Colleges conference - October 1991 - Co authors: J. Streb, P. Cantonwine and R. Speckert
- "LINK-UP/BCX" - Manufacturing simulation software for Lathes and Mills (1984-1993)

**Service:** (Recent activity)

2017-present	Chaired, Search Committee, Electrical and Computer Engineering Technology
2015-2016	Chaired, Search Committee, Mechanical Engineering Technology, James A. Meyers Endowed Professorship
2015-2016	Chaired, Search Committee, Electro-Mechanical Engineering Technology Associate Professor position
2015-present	Served, Advisory Council, Cincinnati Public Schools Career Tech
2014-present	Served, Advisory Council, Butler Tech—Adult Programs
2012	Served, Search Committee, Mechanical Engineering Technology Associate Professor position
2010-2015	Chaired, SEAS Evaluation of Administrators Committee
2010-2015	Chaired, SEAS Grievance Appeals Board
2005	Chaired, Search Committee, Chair/Director of Nursing Department, Miami University
2004-2006	Judge, B.E.S.T Robotics, University of Cincinnati—College of Applied Science.
2003-Present	Judge, Senior Design Projects, University of Cincinnati—College of Applied Science, Mechanical Engineering Technology.
2002-Present	Advisory Council, Greater Cincinnati TechPrep Consortium
2002-present	Served, Advisory Council, Cincinnati State Technical and Community College, Electro-Mechanical Engineering Technology
2002-present	Served, Advisory Council, Northwest School, Electro-Mechanical program
2000-present	Served, Advisory Council, Hamilton High School, Engineering Design program

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