

# CURRICULUM STANDARD

Effective Term  
Fall 1997  
[1997\*03]

Curriculum Program Title

**Industrial Management Technology**

Code

**A50260**

Concentration

**(not applicable)**

## *Curriculum Description*

The Industrial Management Technology curriculum is designed to equip students with the knowledge, skills, and abilities to function effectively in staff, front-line leadership, and mid-level management positions in organizations. The program emphasizes team building, TQM, SPC, motivation, continuous improvement, systems, and leadership.

Course work includes the integrated study of quality and productivity improvement, production operations, management, financial analysis, problem solving, and management of resources- human, physical, and information. Course work incorporates a broad understanding of computer applications to analyze and solve problems.

Graduates should qualify for entry-level positions such as front-line supervisor, engineering assistant, production planner, inventory supervisor, or as a quality control technician. With additional training and experience, graduates could become plant manager or production managers.

## *Curriculum Requirements\**

- I. General Education.** Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours of general education; 3 semester hours must be in communications. General education is optional in certificate programs.
- II. Major Hours.** AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. (*See second page for additional information.*)
- III. Other Required Hours.** A college may include courses to meet graduation or local employer requirements in a certificate, diploma, or associate in applied science program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

|   | <b>AAS</b>   | <b>Diploma</b> | <b>Certificate</b> |
|---|--------------|----------------|--------------------|
| Minimum General Education Hours               | 15           | 6              | 0                  |
| Minimum Major Hours                           | 49           | 30             | 12                 |
| Other Required Hours                          | 0-7          | 0-4            | 0-1                |
| <b>Total Semester Hours Credit in Program</b> | <b>64-76</b> | <b>36-48</b>   | <b>12-18</b>       |

\*Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic use of computers.

## *Major Hours*

- A. Core.** The subject/course core is comprised of subject areas and/or specific courses which are required for each curriculum program. A diploma program offered under an approved AAS program standard or a certificate which is the highest credential level awarded under an approved AAS program standard must include a minimum of 12 semester hours credit derived from the subject/course core of the AAS program.
- B. Concentration** (*if applicable*). A concentration of study must include a minimum of 12 semester hours credit from required subjects and/or courses. The majority of the course credit hours are unique to the concentration. The required subjects and/or courses that make up the concentration of study are in addition to the required subject/course core.
- C. Other Major Hours.** Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from any prefix listed, with the exception of prefixes listed in the core or concentration. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit.

### **Industrial Management Technology A50260**

|   | <b>AAS</b>    | <b>Diploma</b> | <b>Certificate</b> |
|---|---------------|----------------|--------------------|
| <b>Minimum Major Hours Required</b>   | <b>49 SHC</b> | <b>30 SHC</b>  | <b>12 SHC</b>      |
| <b>A. CORE</b><br><i>Courses required for the diploma are designated with *</i><br><br><b>Required Courses:</b><br>* ISC 112 Industrial Safety 2 SHC<br>* ISC 132 Manufacturing Quality Control 3 SHC<br>* ISC 135 Principles of Industrial Management 3 SHC<br>* ISC 136 Productivity Analysis I 3 SHC<br>ISC 233 Industrial Organization and Management 3 SHC<br><br><b>Required Subject Areas:</b><br><b>Industrial Management. Select one:</b><br>ISC 128 Industrial Leadership 2 SHC<br>ISC 133 Manufacturing Management Practices 2 SHC<br><br><b>Manufacturing. Select one:</b><br>MEC 111 Machine Processes I 3 SHC<br>MEC 145 Manufacturing Materials 3 SHC<br>MEC 242 Manufacturing Processes: APICS CIRM 3 SHC | <b>19 SHC</b> | <b>19 SHC</b>  |                    |
| <b>B. CONCENTRATION</b> ( <i>Not applicable</i> )   |               |                |                    |
| <b>C. OTHER MAJOR HOURS</b><br><i>To be selected from the following prefixes:</i><br><br>ACC, BPM, BPR, BUS, CIS, COE, CSC, CTS, DBA, DFT, ECO, EGR, ELC, ISC, MAC, MEC, NOS, OMT, and PTC<br><br><i>Foreign language courses (including ASL) that are not designated as approved other major hours may be included in all programs up to a maximum of 3 semester hours of credit.</i>  |               |                |                    |

