

ATMAE's Organizational Identity/Scope

1.10 Organizational Identity/Scope¹

1.11 The ATMAE Venn Diagram was published in 2009 to symbolize and illustrate both the membership and program scope that ATMAE would serve and appeal to. It illustrates who ATMAE's members are, and what typical academic programs that we may accredit as an association. It is comprised of three anchor areas of interest: (1) Industrial Technology represented by the term *Technology* on the Venn, (2) Operations Management represented as *Management* on the Venn, and (3) *Applied Engineering*. Overlapping identified areas are also noted on the diagram. These include *Engineering Technology*, *Technology Management*, and *Engineering Management*.



¹ The ATMAE Venn Diagram was developed by Dr. John R. Wright, Jr. on behalf of the 2008-2009 ATMAE Executive Board (former name for the Board of Directors). Copyright 2009 ATMAE.

- 1.12 The Venn definitions of each of the anchors, as well as, those of the overlapping areas are defined as follows.²
- 1.12a Industrial Technology is the field concerned with the application of basic engineering principles and technical skills in support of industrial engineers and managers. Industrial Technology degreed programs typically include instruction in optimization theory, human factors, organizational behavior, industrial processes, industrial planning procedures, computer applications, and report and presentation preparation.
 - 1.12b Technology Management is the field concerned with the supervision of personnel across the technical spectrum and a wide variety of complex technological systems. Technology Management degreed programs typically include instruction in production and operations management, project management, computer applications, quality control, safety and health issues, statistics, and general management principles.
 - 1.12c Operations Management is the field concerned with managing and directing the physical and/or technical functions of a firm or organization, particularly those relating to development, production, and manufacturing. Operations Management degreed programs typically include instruction in principles of general management, manufacturing and production systems, plant management, equipment maintenance management, production control, industrial labor relations and skilled trades supervision, strategic manufacturing policy, systems analysis, productivity analysis and cost control, and materials planning.
 - 1.12d Engineering Management is the field concerned with the application of engineering principles to the planning and operational management of industrial and manufacturing operations, and Engineering Managers are prepared to plan and manage such operations. Engineering Management degreed programs typically include instruction in accounting, engineering economy, financial management, industrial and human resources management, industrial psychology, management information systems, mathematical modeling and optimization, quality control, operations research, safety and health issues, and environmental program management.

² ATMAE endorses the Department of Education's (DOE) corresponding Classification of Instructional Program (CIP) definitions. *Applied Engineering* and *Technology Management* are new fields defined by ATMAE until such time as appropriate CIPs are secured. The next CIP review is scheduled for 2020.

- 1.12e Applied Engineering is the field concerned with the application of management, design, and technical skills for the design and integration of systems, the execution of new product designs, the improvement of manufacturing processes, and the management and direction of physical and/or technical functions of a firm or organization. Applied Engineering degreed programs typically include instruction in basic engineering principles, project management, industrial processes, production and operations management, systems integration and control, quality control, and statistics.
- 1.12f Engineering Technology is the field concerned with the application of basic engineering principles and technical skills in support of engineers engaged in a wide variety of projects. Engineering Technology degreed programs typically include instruction in various engineering support functions for research, production, and operations, and applications to specific engineering specialties.
- 1.13 Other programs and members with similar interests may also fall under the ATMAE umbrella (e.g. Safety practitioners and programs). Whereas NAIT, ATMAE's former name/identity) had a common thread of program definition as an organization dedicated to the development of a field of industrial technology, ATMAE now represents a multitude of interests as reflected on the Venn.

2.10 Adherence & Execution

- 2.11 ATMAE's Board of Directors is charged with the ultimate responsibility of executing the contents of this document. This responsibility permeates all facets of the Association including all independent boards, divisions, focus groups, etc. where ATMAE's brand may be impacted.
- 2.12 All ATMAE leadership (independent boards, divisions, focus groups, etc.) are responsible for compliance with ATMAE's Organizational Identity/Scope.
 - 2.12a ATMAE's independent boards have the authority to design, implement, and execute their respective, empowered authority as authorized by the Board of Directors. This authority must comply with the organizational identify/scope of the Association as it is designed to establish the framework for executing the mission of the Association.
 - 2.12b Failure of any facet of the Association's leadership (including independent boards, divisions, focus groups, etc.) to follow the organizational identify/scope may result in removal and/or dissolution of said leadership/entity by the Board of Directors.