



The Benefits of TSA



Missouri TSA is a non-profit organization devoted to the needs of students in technology education. Missouri TSA serves more than 3,500 middle and high school students in 50 local school district chapters.

Our mission is to prepare our membership for the challenges of our dynamic world by promoting technological literacy, leadership, and problem-solving skills, providing personal growth, and maximizing their opportunities. Teachers are eligible to use TSA activities in the classrooms to extend the learning beyond traditional classroom experiences.

TSA Benefits the School

TSA chapter activities are an integral part of the school technology education program and provide added dimension to school/community activities. TSA activities enhance the instructor's means of creating technology related challenges that benefit the student.

TSA increases the opportunity for individual student growth and participation in an educational environment. Some benefits to the school are that TSA:

- promotes, expands, and improves the total technology education program
- creates additional means of developing student interest in broad-based learning
- promotes the school, with visibility provided through school and community projects
- provides opportunities for students to integrate learning experiences from other instructional areas
- integrates Career & Technical Student Organization (CTSO) leadership development for meeting fourth cycle MSIP expectations. *DESE, Common Standards for Career Education Programs, Standard five (5)*
http://dese.mo.gov/divcareered/common_program_standards.htm.

TSA Benefits the Student

TSA students have common objectives and interests. Each is learning about his or her role in our technological society.

TSA activities can have a tremendous effect upon the attitudes, growth, and development of each member. An important comparison to make with the Accreditation Board for Engineering and Technology, ABET Engineering and Technology Standards reveals many key points that TSA student members are expected to know and be able to do in their study of technology. The ABET standards require that engineering programs must demonstrate that their graduates have:

- an ability to apply knowledge of mathematics, science, and engineering
- an ability to design and conduct experiments, as well as to analyze and interpret data
- an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
- an ability to function on multidisciplinary teams
- an ability to identify, formulate, and solve engineering problems
- an understanding of professional and ethical responsibility
- an ability to communicate effectively
- the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
- a recognition of the need for, and an ability to engage in life-long learning
- a knowledge of contemporary issues
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

To learn more about ABET Standards go to <http://www.abet.org/>. For more information about TSA and starting your own school chapter, log onto the Missouri TSA web site: <http://www.motsaweb.org> or the National TSA web site: <http://www.tsaweb.org>.

Motto

“Learning to Live in a Technical World”