

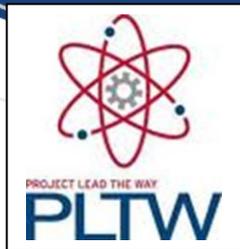
Course Offerings:

Drafting Technology:

Drafting Technology is a course which teaches students basic, drafting fundamentals. Students will become familiar with drafting methods, develop and practice drafting skills and techniques. Students will learn computer aided design (CAD) software.

Introduction to Engineering (IED)

The major focus of IED is the design process and its application. Though hands-on projects, students apply engineering standards and document their work. Students use industry standard 3D modeling software to help them design solutions to solve proposed problems, document their work using engineer's notebook.



Metal Technology:

Welding: This has 3 areas of learning; gas, electric arc, Mig and Tig welding. Students learn go do different welds on steels, iron and aluminum. Students will work with the foundry process where students mold a pattern in sand and then cast it out of aluminum. They will work with sheet metal, tap and die and become familiar with brazing techniques.

Wood Technology:

Wood Technology was designed for students who love to build wood projects. Students will learn and understand wood materials, processes, tools and machinery. The course is primarily hands-on learning in the wood laboratory; however, class discussions and activities are also emphasized.

Construction Technology:

The Construction Technology course is designed to introduce skills, knowledge, of the construction industry. Students will study the importance and impact of construction, plus steps in designing, and maintain structures. Some activities will include pouring cement and building a utility shed.



Industrial Technology

(Career and Technical
Education)

Dike-New Hartford CSD

330 Main St., Dike, IA 50624

<http://www.dnhcsd.org>

DNH CSD

Building Trades and Construction

A strong demand for workers continues in the building trades and construction industry. According to the U.S. Bureau of Labor Statistics, construction is among the top ten of the nation's industries, constituting almost 5 percent of the total national gross product. Nationally, more than one million construction jobs will be created over the next decade, with job categories ranging from laborers to engineers to contractors.

Manufacturing

The manufacturing industry sector is an important part of the U.S. economy, producing a wide range of products, chemicals, plastics, and agriculture equipment. This sector provides a foundation in manufacturing processes and systems for all industrial technology education students. Students are engaged in an instructional program that integrates technical preparation and academics with career awareness, and skill preparation in machining and forming technology, and welding technology.

Overview of Industrial Technology Education

Industrial Education programs are designed to provide specialized skills related to a variety of occupations. Emphasis is placed upon employability skills, state and national skill standards and student transition to postsecondary education or the work place. The content on Industrial Education is organized around four distinct program organizer: **Communication, Construction, Manufacturing and Transportation.** The programs are intended to be relevant to the modern workplace as related to technology, academics, skill standards and technical skills.

Students exiting secondary industrial education programs should be prepared to enter the workforce at an entry level with marketable job skills. However, it must be realized that additional education beyond high school is necessary in order to obtain and maintain higher level skills required by employers. Students must be made aware that the academic demands of the workplace are higher than ever. The utilization of high technology in all career fields has continued and will continue to raise the academic skills required in addition too new and more advanced technical skill requirements.