

Industrial Maintenance Technology Academy

The **Industrial Maintenance Technology** Academy gives you the chance to explore a career in Industrial Maintenance field while earning college credit before you graduate from high school! This academy will begin to prepare you to become a plant maintenance technician. You will learn technical skills in maintaining and troubleshooting electrical and mechanical systems used in industry. Careers in manufacturing and Industrial Maintenance are in high demand and the job opportunities continue to expand for individuals who have skills in troubleshooting and repair for today's industrial systems.

You may enroll in any or all of the courses listed in the Academies through the guidance of your high school counselor. You are not required to take all courses within the Academy to get college credit for each course.



Career Opportunities:

Plant Maintenance Technician

How much will it cost?

Your school district pays for your courses. You and your family are saving \$165/credit hour (SCC's in-state tuition cost for 2015-2016).

Check with your high school guidance counselor but you most likely will need to provide your own transportation and purchase your textbooks.

Who may participate?

Any high school student who meets the requirements may participate, check with your high school guidance counselor.

What may I do after high school?

When you complete courses in the **Industrial Maintenance** Technology Academy, you will earn SCC college credit and have an SCC college transcript. If you enroll in the industrial maintenance technology programs at SCC, you may bypass the courses you have already taken, saving time and money.

Some courses may apply to other programs. SCC Enrollment Specialists can answer your questions. To view all the programs offered at SCC, visit our website for more information:
www.scciowa.edu/scripts/admissions/programs/programlist.asp

May I take more?

If there are openings in appropriate classes on an SCC Campus, there may be a possibility for further study. Check with your high school guidance counselor.

When and where are the classes located?

Concurrent Enrollment classes are held at Central Lee, Keokuk, and Fort Madison Community High School. See back for detailed information.

How do I register?

Meet with your high school guidance counselor to determine course options. Register online with SCC, as directed by your counselor. Your high school counselor will send the class roster to SCC.

Do courses transfer to other colleges?

Check out this link: www.transferiniowa.org to see how courses may transfer to other colleges. It's also recommended that you double check with the college to make sure how/if courses will transfer.

Questions or for more information:

Michelle Randall

Director of High School Relations
319-208-5046: mrandall@scciowa.edu

West Burlington Campus

1500 West Agency Road
West Burlington, IA 52655
Toll-free: 1-866-722-4692 x5046

CENTRAL LEE

Fall : August 24 - November 17, 2015

ELE-116	Blueprint Reading	1 credit
IND-107	Valves	1 credit
ELT-295	AC/DC Fundamentals	2 credits

Fall : August 4 - January 14, 2016

ENG-105	Composition I	3 credits
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Spring : January 16 - May 25, 2016

ENG-106	Composition II	3 credits
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FORT MADISON

Trimester 2 : November 18 - February 26, 2016

ELE-116	Blueprint Reading	1 credit
IND-107	Valves	1 credit
ELT-295	AC/DC Fundamentals	2 credits

Trimester 1 : August 31 - December 2

ENG-105	Composition I	3 credits
PSY-111	Intro to Psychology	3 credits

Fall Semester : September 2 - December 16

PSY-111	Intro to Psychology	3 credits
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Trimester 2 : December 3 - March 9, 2016

ENG-105	Composition I	3 credits
MAT-704	Math Applications	5 credits

Trimester 3 : March 10 - May 26, 2016

ENG-106	Composition II	3 credits
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KEOKUK

Fall : August 24 - December 23, 2015

ENG-105	Composition I	3 credits
PSY-111	Intro to Psychology	3 credits

Spring : January 4 - May 25, 2016

ENG-106	Composition II	3 credits
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Spring : February 29 - May 27, 2016

ELE-116	Blueprint Reading	1 credit
IND-107	Valves	1 credit
ELT-295	AC/DC Fundamentals	2 credits

Course Descriptions

ELE-116 Blueprint Reading

Credit: 1 This course discusses the specific data that is drawn on a blueprint and explains how to read and interpret the drawing format. Students will learn orthographic and isometric drawings to understand shapes, sizes, and dimensions. Students will study building terms and construction features of carpentry, masonry, electrical, mechanical and plumbing trades.

ELT-295 AC/DC Fundamentals

Credit: 2 This course introduces students to the components used in most electronic circuits and how they are measured, tested and function. Students will learn the fundamentals of AC and DC electrical systems used for power and control in industrial applications. Students will learn how to operate, install, design and troubleshoot basic AC and DC electrical circuits.

ENG-105 Composition I

Credit: 3 A study of the principles of writing. Emphasis on rhetoric, mechanics, and development of expository patterns: narration, description, illustration, comparison/contrast, classification, process, and cause/effect. Required for AA and AS Degrees. Prerequisites: Mandatory COMPASS or ACT test score and mandatory eWrite score (per SCC Writing Scores & Mandatory Course Placement Chart), or a C- or above in ENG-061, College Preparatory Writing II. No waivers.

ENG-106 Composition II

Credit: 3 A continuation of study of the principles of writing begun in ENG-105. Emphasis is placed on persuasive writing as well as literary analysis and the MLA research paper. Time will also be spent exploring the research sources available from the library. Required for AA and AS Degrees. Prerequisite: C- or above in ENG-105.

IND-107 Valves

Credit: 1 This course gives students a fundamental understanding of the various shutoff valve constructions including wedge, ball, plug, globe, pinch, and diaphragm types, basic maintenance techniques, and the sources of many problems. From this foundation, students will be better able to develop maintenance skills through plant training programs or on-the-job experiences. The course also provides basic guidelines for installing various types of shutoff valves.

MAT-704 Math Applications

Credit: 5 This course is offered to technical and other students who can profit from an applied course in mathematics. It is designed as an intermediate level algebra course recommended for students with at least one year of high school algebra. Emphasis is on the application of mathematical techniques. Students will study the relationship of geometry and algebra as they apply to electronics and mechanical technology problems. Algebraic manipulation of formulas, equations, radicals, exponents, logarithms, polynomials, rational expressions, systems of linear equations, plane trigonometry, vectors, and graphs of equations are studied. Prerequisite: MAT-062 or MAT-702 or COMPASS Algebra score of 20 or higher or ACT Math score of 20-21 or math faculty approval.

PSY-111 Introduction to Psychology

Credit: 3 A basic course in the understanding of behavior, designed to give the student a scientific background in the fundamental problems and techniques covered in the field of psychology.

Southeastern Community College (SCC) is committed to providing equal access to all persons who seek post-secondary and related educational assistance, within our stated mission and statutory authority. We remain committed to helping all persons to the level of their ability to benefit, regardless of age, disability, ethnicity, gender, national origin, race, religious creed, marital status, or sexual orientation. We will accomplish this commitment through our offering of a broad spectrum of quality educational programs, activities, educational assistance, and related support services. We value diversity as a rich enhancement of student experiences here and we are thereby committed to policies that promote fairness and inclusion for all who attend SCC.

