**Student ID:**_____
**Student Name:**_____
**Adviser Name:**_____

**Catalog: 2016-2017 Catalog**
**Program: Industrial Process Control Technology - Process Technician Concentration, A.A.S.**
**Minimum Credits Required:**_____

# Industrial Process Control Technology - Process Technician Concentration, A.A.S.

## Industrial Process Control Technology

**Associate of Applied Science (A.A.S.)**
**Contact Information:** Program Office 931-296-1739, ext. 313, Humphreys County Campus
E-mail: Joey.Leonard@nscc.edu

The Industrial Process Control Technology program is designed to provide skills for those who are interested in a career as a process control or maintenance technician. The program trains students to work as a key member of a team of people responsible for planning, analyzing and controlling the production of products – from acquisition of raw materials through the production and distribution of products to customers in a variety of industries. These industries include, but are not limited to, chemical, food and beverage, pharmaceutical, power generation, pulp and paper, refining, and waste water treatment.

## Process Technician Concentration

Process Technician jobs for well-trained individuals include opportunities in the middle Tennessee area with some of our program partners—businesses such as E.I. DuPont, Matheson Tri-Gas, Erachem-Comilog, Rockwood Lithium, Occidental Chemical Corporation, Accurate Energetic Systems, Tennessee Valley Authority, and Hood Container.

Graduates in the Process Technician concentration should be able to:

- Feed raw material and processing agents into plant machinery;
- Prepare and measure raw material;
- Set controls and operate machinery;
- Check instruments and equipment to make sure of correct operation, and be aware of any abnormal operating conditions; and
- Take samples for testing, test products, and record process data.

## Course Requirements

### Required: NSCC 1010 - First Year Experience

| Course Name | Credits | Term Taken | Grade | Gen Ed |
|---|---|---|---|---|
| NSCC 1010 - First Year Experience | 1 Credit | | | |

### English

| Course Name | Credits | Term Taken | Grade | Gen Ed |
|---|---|---|---|---|
| ENGL 1010 - English Composition I* | 3 Credits | | | |

### Speech (choose one)

| Course Name | Credits | Term Taken | Grade | Gen Ed |
|---|---|---|---|---|
| SPCH 1010 - Fundamentals of Speech Comm* | 3 Credits | | | |
| OR | | | | |
| SPCH 1112 - Speech* | 3 Credits | | | |

### Humanities

- Humanities Elective 3 Credits

### Mathematics

| Course Name | Credits | Term Taken | Grade | Gen Ed |
|---|---|---|---|---|
| MATH 1630 - Finite Mathematics* | 3 Credits | | | |

### Social Sciences

- Social Sciences Elective 3 Credits

### Industrial Process Control Technology

| Course Name | Credits | Term Taken | Grade | Gen Ed |
|---|---|---|---|---|
| PTEC 1010 - Technical Chemistry | 5 Credits | | | |
| PTEC 1020 - Orientation to Indust. Safety | 3 Credits | | | |
| PTEC 1050 - Intro to Process Control | 3 Credits | | | |

| | | | | |
|---|---|---|---|---|
| PTEC 1060 - Process Technology I | 4 Credits | | | |
| PTEC 1070 - Process Technology II | 4 Credits | | | |
| PTEC 1080 - Process Technology III | 4 Credits | | | |
| PTEC 2000 - Electrical I | 5 Credits | | | |
| PTEC 2010 - Electrical II | 5 Credits | | | |
| PTEC 2020 - Quality | 3 Credits | | | |
| PTEC 2050 - Instrumentation I | 5 Credits | | | |
| PTEC 2060 - Instrumentation II | 4 Credits | | | |

**Total Required - Associate's Degree: 61 Credits**

## Recommended Full-Time Day Schedule

### First Year

**Fall Semester**

| Course Name | Credits | Term Taken | Grade | Gen Ed |
|---|---|---|---|---|
| NSCC 1010 - First Year Experience | 1 Credit | | | |
| ENGL 1010 - English Composition I* | 3 Credits | | | |
| MATH 1630 - Finite Mathematics* | 3 Credits | | | |
| PTEC 1020 - Orientation to Indust. Safety | 3 Credits | | | |
| PTEC 1050 - Intro to Process Control | 3 Credits | | | |
| PTEC 2000 - Electrical I | 5 Credits | | | |

**Spring Semester**

| Course Name | Credits | Term Taken | Grade | Gen Ed |
|---|---|---|---|---|
| PTEC 1060 - Process Technology I | 4 Credits | | | |
| PTEC 2010 - Electrical II | 5 Credits | | | |
| PTEC 2020 - Quality | 3 Credits | | | |

**Speech (choose one)**

| Course Name | Credits | Term Taken | Grade | Gen Ed |
|---|---|---|---|---|
| SPCH 1010 - Fundamentals of Speech Comm* | 3 Credits | | | |
| OR | | | | |
| SPCH 1112 - Speech* | 3 Credits | | | |
| | | | | |

### Second Year

**Fall Semester**

| Course Name | Credits | Term Taken | Grade | Gen Ed |
|---|---|---|---|---|
| PTEC 1010 - Technical Chemistry | 5 Credits | | | |
| PTEC 1070 - Process Technology II | 4 Credits | | | |
| PTEC 2050 - Instrumentation I | 5 Credits | | | |
| • Humanities Elective 3 Credits | | | | |

**Spring Semester**

| Course Name | Credits | Term Taken | Grade | Gen Ed |
|---|---|---|---|---|
| PTEC 1080 - Process Technology III | 4 Credits | | | |
| PTEC 2060 - Instrumentation II | 4 Credits | | | |
| • Social Sciences Elective 3 Credits | | | | |

## Note:

**Additional course requirements:** The Tennessee Board of Regents requires that students either demonstrate the appropriate skill levels in math, reading, and/or writing before enrolling in college-level courses or enroll in appropriate co-requisite experiences with college-level courses to develop competency in those skills while performing college-level work. ACT/SAT scores, COMPASS test scores, or other relevant information determine whether a student needs to enroll in co-requisite courses in math, reading, and/or writing

(English).

**Cooperative Education work experience** in Industrial Process Control Technology and can be an important addition to a student's formal classroom work. Co-op courses, if appropriate, may substitute for technical courses up to nine credit hours with the prior approval of the department head. All Co-op work must have department head approval. The Career Services Office will provide the correct course numbers. Students participating in Cooperative Education are encouraged to work a minimum of two terms.

**Apprenticeship Opportunities:** Prospective students could be eligible for a position involving a competitive application process with a local IPCT industrial alliance member. Please call Joey Leonard at 931-296-1739, ext. 313, or e-mail joey.leonard@nscc.edu for more information.

**NCCER Assessment:** A student seeking the Process Technician concentration with four (4) or more years of experience as an electrician or instrumentation technician may choose to take the National Center for Construction Education and Research (NCCER) skills assessment in place of certain coursework as listed above. For more information concerning NCCER assessment, contact Danny Sensing at 931-296-1739, ext. 318, or e-mail danny.sensing@nscc.edu.

* This course is part of the general education core.

**Notes:**