

# ADVANCED INTEGRATED INDUSTRIAL TECHNOLOGY Technical Certificate



## Program and Career Description:

The Technical Certificate in Advanced Integrated Industrial Technology is a one-year program designed to prepare graduates for many different careers related to manufacturing with an emphasis on technology, critical thinking, and problem solving. Students will take courses in the basic fundamentals of industrial technology and move to more advanced applications including Programmable Logic Controls.

Career	Beginning Salary	Experienced Salary Median
Industrial Machinery	\$32,750	\$46,780
Maintenance Workers	\$25,460	\$40,110
Electrical/Electronic Engineering Technicians	\$43,450	\$62,360
Maintenance & Repair Workers	\$23,910	\$34,580

Career and salary information taken from [www.bls.gov](http://www.bls.gov). Check out this web site for additional information about education requirements and preferred work styles and abilities for these careers. Salaries are not guaranteed.

This technical certificate will be an embedded certificate within the Advanced Integrated Industrial Technology A.A.S. degree. Upon successful completion of the certificate program, students will be afforded the opportunity to complete industry certification exams.

### Required Courses

___ AIT 1001	Basic Electricity	2 hours
___ AIT 1102	Fluid Power Distribution	2 hours
___ AIT 1003	Hydraulic/Pneumatic Fundamentals	1 hour
___ AIT 1401	Basic Electrical Controls & Installation	2 hours
___ AIT 1402	Pneumatic Controls	1 hour
___ AIT 1403	Hydraulic Controls	1 hour
___ AIT 1302	Integrated Process Control	2 hours
___ AIT 1501	Intermediate Electrical Controls	2 hours
___ AIT 1600	Workplace Safety	1 hours
___ AIT 2101	Predictive/Preventative Maintenance & Lubrication	1 hour
___ AIT 2201	Programmable Logic Controls	2 hours
___ AIT 2202	Programmable Logic Controls Lab	2 hours

**Total Credit Hours 19**

### Requirements for Certificates include:

- Total certificate hours must be at least 19
- earning 25% of total program credits in residence at Columbia State.
- GPA of at least 2.0 in courses required for the certificate.

### For more information contact:

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**or 931.540.2711 or 931.398.8868 or**

**Science, Technology and Math Division office at 931.540.2710**

For more information about our graduation rates, the median debt of students who completed the program and other important information, please visit our web site at <http://www.columbiastate.edu/IR/Gainful%20Employment/AIIT/gedt.html>