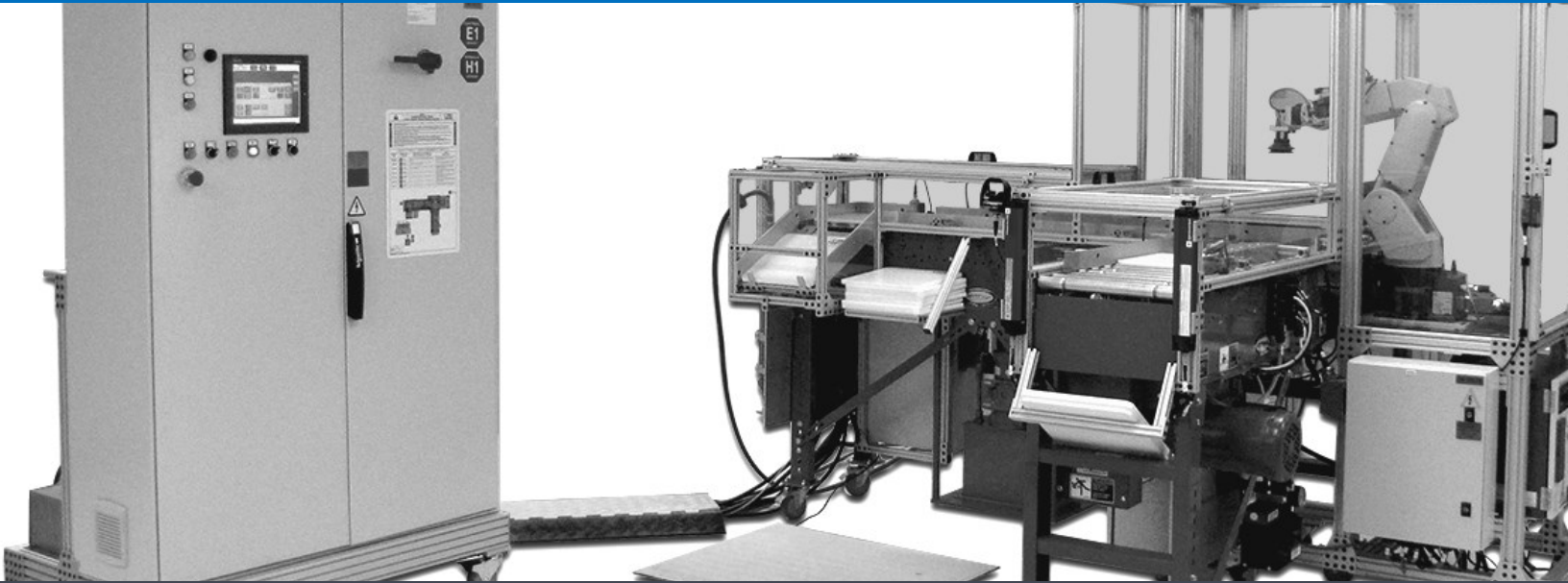


# Integrated Manufacturing Systems



## Level One

**This course is** intended to introduce participants to the technology found in today's automated integrated systems. It introduces you to a troubleshooting methodology that can be directly applied to equipment maintenance.

**In addition,** you will be exposed to technology, including PLCs, fluid power and electrical. You will work with plant prints, use numerous written troubleshooting exercises and apply troubleshooting methodologies on the AMTEC Simulator.

### Course Objectives

- Identify each output associated with every step in the sequence of operation on each station on the integrated systems trainer.
- Generate a list of most probable triggering elements associated with each step in the sequence on each station on the integrated systems trainer.
- Compare the PLC inputs and outputs associated with each real-world input and output with the working drawings of the integrated systems trainer.
- Identify a faulted part, given the status of an operator's complaint, all I/O indicators (including blown fuse indicators) and the processor logic.
- Identify the most likely faulted item(s), given an operator's complaint, all I/O indicators and a sequence diagram with outputs and triggers identified.

### Course Objectives, continued

- Isolate a fault on each station as to the input and output that is expected for the paused sequence of operation, given a drawing depicting the machine's physical layout with all indicators reflecting the state and processor status.
- List the part flow and process flow of the integrated systems trainer.

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### Class Details

**#L9181A July 19 and 26, 2017**  
**1 to 5 p.m.**

**Course will be held at Rhodes State.**

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### Registration

Pre-registration is required for all participants. This class is limited to four participants. Registration deadline is July 15, 2017.

To register, please complete and submit the registration form on the next page. Registration confirmations, including class location, directions and a campus map, will be mailed about a week before the start date.

# REGISTER NOW



Name: \_\_\_\_\_

Company: \_\_\_\_\_

Home    Company Address or Box #:

City, State and Zip Code: \_\_\_\_\_

Daytime Phone #: \_\_\_\_\_

Home or Cell Phone #: \_\_\_\_\_

Email Address: \_\_\_\_\_

## Integrated Manufacturing Systems 1:

**#L9181A      July 19 and 26, 2017**  
**1 to 5pm**

Yes, enroll me today

Please complete a separate form per person.

**Registration deadline is July 15, 2017.**

## Payment Information:

**Total payment due:** \_\_\_\_\_

Check Enclosed (payable to Rhodes State College)

Credit Card:   VISA      MasterCard      Discover Card

Name on card: \_\_\_\_\_

Card Number: \_\_\_\_\_

Expiration Date: \_\_\_\_\_

3-digit security code: \_\_\_\_\_

## REGISTRATION FEE

All prices listed are per person and include all training materials.

The course is subject to cancellation if minimum enrollment is not met.

Credit cards are not processed until just before the listed class start date.

## Integrated Manufacturing Systems 1

**\$275.00** Regular participant fee

**\$247.50** WCOMC member discounted fee

## REGISTRATION FORM

**Make checks payable to Rhodes State College**

**MAIL:** Rhodes State College, c/o WEDCE,  
4240 Campus Drive, Lima OH 45804.

**FAX:** (419) 995-8096

**PHONE:** (419) 995-8351  
8:30am to 4:30pm, weekdays

**EMAIL:** Eilerman.t@rhodesstate.edu

## REFUND, INVOICING & CANCELLATION POLICIES

- You can withdraw from a workshop up to 3 days before its start date. A fee of \$15 applies to any such cancellation for this course.
- You will be charged 50% of the fee paid for cancellation within 3 days of the start date.
- No refunds are issued for no-shows. Substitutions are welcome.
- A full refund will be issued if a course cancels.
- A \$25 late payment charge will be imposed for non-payment of an invoice within the payment terms given on the invoice. Typical payment terms are net 30 days.
- WEDCE reserves the right to adjust these policies as needed.

**Rhodes State College is a Tobacco-Free Campus**