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Thank you for your interest in Wulftec’s Programming Seminar.

Registration is on a first-come, first-serve basis, so make sure you register early!

**Criteria required to be accepted at the seminar**

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| --- | --- |
| **Level 3 Programming Seminar**  ***MANDATORY technical skills and knowledge*** | * Level 1 and Level 2 Technical Seminar Certification * PLC programming knowledge (min. 1-year experience with mandatory items listed below) * Computer experience * Ability to go “online” with major brands of PLCs and touch screens * Understanding of automated systems and how sequences work |

Participants will fully benefit from this course if they have programming certification from a recognized school and two or more years of experience working on stretchwrapping systems. This course is designed to help participants learn to understand Wulftec sequences. This is NOT an Allen Bradley programming course.

The 3-day programming seminar is given on a one-on-one basis. Participants will receive one day of theoretical learning and will assist in a machine start-up.

Participants will learn, among other things:

* How Wulftec® uses a state-logic structure to build its programs
* How Wulftec® converts the state logic into ladder logic
* How Wulftec® fragments the program into modular blocks to ease modifications and troubleshooting
* How the Wulftec® machine runs with the various automatic sequences
* Diagnosing and fixing common problems

**General Structure of Evaluation**

**Programming Seminar**

**Successful Completion of Semi-Automatic-Automatic Technical Service Seminar REQUIRED.**

After the course evaluations, the candidate will be assigned one of the following categories:

**Category “A”**

A technician holding category “A” can make all necessary modifications\* on components and programs\* of the wrapping machine in consultation with the Engineering department at Wulftec. This category includes “B” and “C”.

**Category “B”**

A technician holding category “B” can start-up the wrapping machine and verify its sequences. This category includes “C”.

**Category “C”**

A technician holding category “C” can assemble the wrapping machine, but cannot energize the machine.

**\*** Failure to receive Direct Prior Approval from Wulftec concerning any such modification may result in the loss of certification of the technician; Wulftec needs an updated file for each machine for safety purposes and most of all for customer service file update.

Please take note that due to the amount of analysis involved in evaluating appropriate certification issues and requirements, the diploma could/will be forwarded to the technician within two weeks.

Each participant is required to bring the following:

* Safety glasses
* Steel protected working shoes
* Laptop computer equipped with the equipment listed below

LAPTOP COMPUTER with following:

**Recent Automatic Systems**

* Ethernet Straight to connect directly to any devices equipped with Ethernet port
* USB A to USB B cable (printer cable)
* Studio 5000 Logix Designer V24.00, V28, V29, V30, V31, V32, V33 and V34 to modify and download programs into CompactLogix and ControlLogix PLCs
* Factory Talk View Studio V12.00.00 to modify and download into PanelView Plus HMIs
* RS Linx Classic Gateway V4.30.00
* Flexi Soft Designer V1.9.3 to modify the SICK safety controller and light curtain

**Semi-Automatic Systems**

* C.C.W. V13 (Connected Component Workbench) to modify and download programs in Micro800

**Older Systems (Optional / Only if you plan on working on older systems in the field)**

* RSLogix 5000 V19.xx, V20.04, V21.04 to modify and download programs into the CompactLogix and ControlLogix PLCs
* PanelBuilder32 V3.83.01 to modify and download into the PanelView HMIs
* 1747-UIC USB to DH485 (used with Ethernet crossover cable or 2711-NC13)
* 9300-USBS , USB to Serial port (used with 1761-CBL-PM02 or 1747 CP3)
* 2711-NC13 to connect to CPU 5/03
* 1784 U42DHP, USB to DH+ to connect to CPU 5/04
* 1761-CBL-PM02  to connect with Micrologix (1000 or 1200)
* 1747-CP3 to connect to Micrologix 1400 or 1500, CPU 5/03, 5/04, 5/05, some  ControlLogix as well as some CompactLogix
* RSLogix 500 V12 to modify and download programs in Micrologix, CPU 5/03, 5/04 and 5/05 using the cables listed above

**Programming Seminar Registration Form**

**Please return this page by email at** [**pennyn@wulftec.com**](mailto:pennyn@wulftec.com)

|  |  |
| --- | --- |
| Name: |  |
| Company: |  |
| Address: |  |
| Telephone: |  |
| Email: |  |

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| --- | --- |
| \* Years of experience in the packaging industry: |  |
| \* Years of experience with the mandatory equipment: |  |
| \* What are your present qualifications (electrical + mechanical)? | |
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| --- |
| \* What are your present qualifications in programming? |
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It is the responsibility of our seminar participants to provide their own transportation to Wulftec's facilities, lodging expenses and evening meals during the seminars. We will provide the luncheons.

Just a reminder, it is the responsibility of our seminar participants to provide their own transportation to Wulftec's facilities, lodging expenses, evening meals and any other expenses during the seminars. We will provide the luncheons.

**HOTEL ACCOMODATIONS SUGGESTED- MAGOG – (approx. 10-15 min. drive to Wulftec) –REQUEST WULFTEC RATE**

**\*\*Hôtel Versō, 1150 Rue Principale O, Magog, QC J1X 2B8 -PREFERRED**

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