**Tender for Siemens, s.r.o.**

**No. ……………….**

Contract title: **Siplace Pro –** **Operation and programming of ASM automatic placement machines**

Project title: Support for education and training of the staff II

Project registration No.: [CZ.03.1.52/0.0/0.0/15\_021/0000053](https://www.esfcr.cz/presmerovani/-/link/project/FAE15CE6-2EFA-4ECD-B9D2-E19BC804F15B?p_auth=PciAZ7Nh&backUrl=%2Fzadavaci-rizeni-opz%2F-%2Fasset_publisher%2F0vxsQYRpZsom%2Fcontent%2Fsiplace-pro-obsluha-a-programovani-osazovacich-automatu-asm%3FinheritRedirect%3Dfalse)

Contract No.: ……………….

For attention of:

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Elaborated by:

In………………………………… on:……………………………………………

1. **Required content of training activity**

SiplacePro – Operation and programming of ASM automatic placement machines course consists of three successive blocks.

**A) Siplace Pro programming basics**

1st part of the training activity contains about 12 hours of intensive training focused on control of manufacturing process in the given programming language.

Detailed content:

* Use in menu and toolbar
* Creation of new objects
* Editor Wizard difference
* Use of Query tool
* General functions
* Printing and report sending
* Uploading of standard library
* Ascii Centroid Import Wizard
* Data Model Export and Import
* Use of online help

**Programming**

* Use of component editor
* Creation of component shapes
* Creation of fiducials
* Creation of station and line
* Management of feeders and pipettes
* Creation of component tables and setting
* Waffle pack trays programming
* Formula creation

**Optimization**

* Jobs creation
* Optimization configuration
* Optimization

**Line watching**

* Processing of production plans
* Downloading
* Change generator control

**B) Configuration of vision systems**

2nd part of the training activity contains about 13 hours of intensive training. It is already solving of partial process, specifically scan and evaluation of pick and place components.

Detailed content:

**Siplace Vision HW**

* Digital cameras and specific parameters

**All types of PCB fiducials**

* Fiducials coordination program
* Program PL/ components recognition of fiducials – synthetic and patterns
* Vision analysis of measuring and protocol results
* Procedure in the case of nonrecognized fiducials – determination of fiducial position

**GF programming and testing**

* Aim for optic component recognition
* Programming, testing and studying of components (classic, atypical, etc.)
* Searching for required tolerances in program parameters for excellent optic centering and placement results
* Vision analysis for measuring and protocol results
* Troubleshooting in the case of own errors and their simulation

**Enhanced functions - Station SW 604/701**

* Siplace Vision XML (Import, export of repaired files from 604.01 – 701.01 version – serves for recovery of data from older version)

**GF Data – checks**

* Check of integrity for GF programming
* Solution of problems in GF programming

**C) Creation of batches**

3rd part of the training activity contains about 13 hours of intensive training. This final part of the course deals with final preparation for production in particular parts.

**SiCluster Professional Application.**

* Cluster Job creation
* Cluster Job configuration
* Configuration of board setting
* Initialization of ideal cycle time
* Configuration of tables
* Analysis of common components
* Initialization of optimization

**Results of analysis**

* View of statistics
* Comparing of cluster jobs
* Check of use of tables and feeders
* View and analysis of optimization results
* Printing of optimization report
* View of setting analysis

**Practical training**

* Optimization with customer’s Siplace Pro data

**Output of the training activity**

Output of the training activity will be certificate of completion of training course for all participants, who participated in at least 80% of the training activity.

1. Offered term of the training activity (March – April 2019)\*

…………………………………………………………………………………..

*\*training activity must commence at the latest until 15 April 2019*

3. Length of the training and frequency

The training shall be carried out in two groups (1x 5 persons, 1x 4 persons). Each group will take part in a week-long instruction: 15 hours of theory, 23 hours of practice and 2 hours of final oral examination. Thus the course will have 8 lessons a day, i.e. in total 40 lessons a week for one group. (1 lesson = 60 min.)

In total 2 groups, 40 lessons each, **i.e. in total 80 lessons.**

* 1. Number of training participants

9 persons

* 1. Contact person for the contract

Name and surname: ……………………………………………………………

Telephone No.: …………………………………………………..

E-mail:…………………………………………………………….

* 1. Venue of the training

In the premises of the contractor.

* 1. Offer price for the training\*

………………………………………………………………………………….

*\* Tenderer shall be obliged to set total offer price for subject of performance of the public contract by an absolute amount in Czech crowns providing it both including VAT and excluding VAT. In the case of foreign tenderer also in EUR in the same form. Total offer price, i.e. offer price for the training activity excluding VAT, shall be evaluated.*

*Winning tender shall be the tender with the lowest offer price excluding VAT for the training activity in CZK or in EUR. (Offers in EUR shall be converted for the purposes of evaluation by a rate of the European Central Bank valid as of the last day of the period for tender submitting. I.e. if the tender price is in EUR it shall not be necessary to convert it in the Czech version into CZK.)*

* 1. Compulsory annexes to the tender\*
  2. …………………………………………………………………….
  3. …………………………………………………………………….

To be filled in according to reality\*

1. *Proof of authorization to carry on business activities e.g. extract from the trade register (simple copy). In the case of a foreign tenderer the contracting authority shall accept a document proving equivalent qualification such as e.g. the above-mentioned extract from the trade register etc.*
2. *Affidavit that the entity has no tax arrears, premium arrears or penalties in connection with public health insurance or social security or contributions to national employment policy, both in the Czech Republic and in the country of registered office, place of business or residence of the contractor.*
   1. Conclusion

Company ……………….agrees with content of the tender, with payment terms, mandatory publicity and also with form of the agreement enclosed to the invitation by the contracting authority as Annex No. 2.

Total number of all sheets in the tender is ….., of which  …….. are not numbered.

For and on behalf of ………………………….in………………….on……………..

…………………………………

Name, surname, position and signature of a person authorized to act on behalf of the company