



# Memorandum of Understanding

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of the European Industrial Automation Class

**[Date]**

The European Industrial Automation Class is a mobility project using ECVET for mobility. The Learning Agreement template related to the European Industrial Automation Class is part of this MoU and can be found in the appendix.

The Memorandum of Understanding (MoU) establishes the partnership's procedures for cooperation in the framework of the EURIAC partnership. In this MoU, all EURIAC partners accept each other's status as competent bodies and agree on common criteria and procedures for assessment, validation and quality assurance for the purpose of transferring learning outcomes and finally on general conditions such as objectives and duration. The competent bodies mentioned in this MoU agree to prepare a Learning Agreement (LA) for each student participating in the mobility.

This MoU contains the following elements:

1. General objectives of the MoU
  2. Period of eligibility of the MoU
  3. Information about the VET partners
  4. Identification of the qualifications concerned
  5. Information about units of learning outcomes that can be completed
  6. Procedure for assessing learning outcomes
  7. Credit transfer procedure
  8. Quality Assurance
  9. Signatures
- Annex: Framework Conditions Regarding EURIAC Implementation  
EURIAC Learning Agreement

## **1. General objectives of the MoU**

The Memorandum of Understanding (MoU) sets out the general framework of cooperation between the partners through which a climate of mutual trust is established. The MoU is also a voluntary partnership agreement in which conditions for an international VET mobility programme can be concluded between the partners from different countries.

## **2. Period of eligibility of the MoU**

This memorandum is valid from XXXX-XX-XX until XXXX-XX-XX.

### 3. Information about the VET partners

#### 3.1 Elof Lindälvs gymnasium (Sweden)

Participating institution: **Elof Lindälvs Gymnasium**

Address: Lindälvs gata 3

City: Kungsbacka

Post Code: 434 32

Country: Sweden

Website: [www.eloflindalvsgymnasium.se](http://www.eloflindalvsgymnasium.se)

Person authorised to sign MoU: Mr Björn Winblad, Principal

Contact Person: Mr Kenneth Karlsson

Phone Number: +46 300 833557; +46 708 360 720

E-mail: [kenneth.karlsson@kungsbacka.se](mailto:kenneth.karlsson@kungsbacka.se)

#### 3.1.1 Short description of Elof Lindälvs Gymnasium:

Elof Lindälvs gymnasium is a modern upper secondary school (1500 students, 152 employees), centrally situated in the town of Kungsbacka, Sweden. There is a large number of programs to be found in the fields of technical/vocational, economic, scientific and creative arts education. Regardless of what direction of study a student chooses there is ample scope for individual choice and personal inclination. It's a school ideally equipped to answer to the demands of society today and tomorrow, combining resources, competence and quality in the form of both material requirements and dedicated and highly qualified teachers.

The vocational programs are operated in collaboration with local, national and international business partners. International co-operation forms part of the school curriculum, e.g. collaboration with England, France, Italy, Spain and Germany. In the EURIAC project the vocational programs of Electricity and Energy and Industrial Technology will be involved.

In upper secondary school, subjects are divided into courses. Courses may comprise 50, 100, 150 or 200 credits. Grades are given for every course completed. Every course has a syllabus stating the objectives to be achieved. There are also grading criteria for every course stating the required level of achievement for the grades of Pass, Pass with distinction and Pass with Special Distinction. Educations starting in August 2011 will deploy a new grading scale A-F, where A is the highest level. At the end of a upper secondary school programme, students receive a diploma in which their achieved courses and grades are presented.

For further information, see our website: <http://www.eloflindalvsgymnasium.kungsbacka.se/en/>

## 3.2 Optima samkommun (Finland)

Participating institution: Optima samkommun  
Address: Trädgårdsgatan 30  
City: Jakobstad  
Post Code: 68600  
Country: Finland  
Website: [www.optimaedu.fi](http://www.optimaedu.fi)  
Person authorised to sign MoU: Mr Rabbe Ede, Director  
Contact Person: Mr Christian Dahlin  
Phone Number: +358 (0)44 7215 350; +358 (0)44 7215 156  
E-mail: [christian.dahlin@optimaedu.fi](mailto:christian.dahlin@optimaedu.fi)

### 3.2.1 Short description of Optima samkommun:

Optima have been ranked as the best vocational school in Finland 2009, 2011, 2012 and 2013 by the Ministry of Education. The school has participated in the Finnish Skills Competition in Mechatronics several times with great success and the staff at Optima has been involved in training teams for the WSC in London 2011. For many years Optima had mobility with Kaplansskolan in Skellefteå, Sweden. Today we have international mobility mostly in the fields of catering and agricultural education. Optima have gathered extensive experience from workplace-training within our local industry. We regularly arrange education for supervisors in workplaces.

Our equipment is based on Festo's Modular Production System with Omron, Mitsubishi and Siemens PLC-system. We have computer-based training system for robotics and PLC-programming. Our workshop has stations for elevators, washing machines, conveyors, motor drives and Profibus. We have a workshop for pneumatic, hydraulic and proportional hydraulic training.

For further information, see our homepage: <http://www.optimaedu.fi/en/start/>

### 3.3 Politeknika Ikastegia Txorierri (Spain)

**Participating institution: Politeknika Ikastegia Txorierri (PIT)**

Address: Untzaga Ibaia, 1

City: Derio

Post Code: E-48160

Country: España

Website: [www.txorierri.net](http://www.txorierri.net)

Person authorised to sign MoU: Mr Juan Angel San Vicente Jorge, Managing Director

Contact Person: Mrs Anabel Menica

Phone Number: +34 / 651705161

E-mail: [anamenica@gmail.com](mailto:anamenica@gmail.com)

#### 3.3.1 Short description of Politeknika Ikastegia Txorierri:

P.I. Txorierri is a private Basque VET School in the Basque Country which has successfully trained students for the workplace in the fields of Metallurgy, Electronics, Commerce and Marketing and Environmental Chemistry since 1979.

A member of HETEL, an association of 22 Basque VET Schools which promotes the improvement of Vocational Training and of the Mondragon Group, a business consortium comprising 218 companies, P.I. Txorierri has excellent industrial machinery, as well as direct connections to the labour market and innovative national and international educational opportunities.

Our equipment is based on SMC Modular Production System with Siemens S7-300 PLC-system. We have computer-based training system for PLC-programming. Our workshop has stations with Profibus and Ethernet connection. We have a workshop for pneumatic, hydraulic and proportional hydraulic training.

Since 1999 Txorierri has taken part in different European projects: Socrates-Lingua and Leonardo Mobility for students and teachers and Leonardo Development and Transfer of Innovation projects. It also took part in the Fe y Alegría project providing technical advice and training of trainers for schools in Colombia.

### 3.4 Radius College (the Netherlands)

**Participating institution: Radius College**

Address: Terheijdenseweg 350

City: Breda

Post Code: 4826 AA

Country: NL - NETHERLANDS

Website: [www.radiuscollege.nl](http://www.radiuscollege.nl) / [www.letsgoabroad.nl](http://www.letsgoabroad.nl)

Person authorised to sign MoU: Mr Frans Bleumer, Director

Contact Person: Ms D. van Iersel / Mr A. Stam

Phone Number: +31 (0)76 5733444

E-mail: [d.vaniersel@rocwb.nl](mailto:d.vaniersel@rocwb.nl) / [a.stam@rocwb.nl](mailto:a.stam@rocwb.nl)

#### 3.4.1 Short description of Radius College:

Radius College is an educational institute which offers technical education. We educate young people to become professionals who surprise and amaze the world around them with intelligent solutions.

**Made@Radius**

Society changes rapidly, and technique plays a leading role in this. This means that in a technical education, you have to train your professionals in such a way that they learn to always be one step ahead of everything that is going on around them. Therefore our mission is: 'to educate young people to be independent professionals who surprise and amaze the world around them with intelligent solutions'. To achieve this we expect our employees to conduct this attitude themselves. They are trained to achieve this. New teachers at Radius are mostly professionals from the field. In our own Radius Academy we train them to become inspiring teachers who coach and stimulate our students.

As for our students... knowledge is important, but that knowledge only becomes interesting when you are able to use it in practice. We therefore encourage students to invent, try, solve and improve. All this under supervision and within a set structure. This way they learn to think, knowledge is absorbed and they learn to come up with alternative solutions. **This is learning the Radius way** and that is exactly what an employer wants from its professional employee.

The big difference between Radius and other colleges is that we are innovative, sustainable and result-oriented. That is what we stand for. And when students graduate they can say their diploma is **Made@Radius!** Would you like to see what the different technical professions entail? Watch the videos at [www.techniekinbeeld.nl](http://www.techniekinbeeld.nl) or go to [www.radiuscollege.nl](http://www.radiuscollege.nl) for more information about our studies.

Our equipment is based on Festo's Modular Production System with Siemens PLC-system. We have a computer-based training system for robotics and PLC-programming. Our workshop has stations for domotica systems, motor drives, measure control systems and Profibus. We have a workshop for pneumatic, hydraulic and proportional hydraulic training. We have workshops in computer added designing with inventor, e-plan stabicad/plan and fluidsims.

#### 4. Identification of the qualifications concerned

	<b>Sweden</b>	<b>Finland</b>	<b>Spain</b>	<b>The Netherlands</b>
<b>Name of the qualification</b>	Programme of Electricity and Energy Programme of Industrial Technology	Automation assembler-electrician	Automation and Robotics	Middenkader engineering technicus
<b>NQF level (where possible)</b>	N/A	N/A	5	4
<b>EQF level (where possible)*</b>	4	4	5	4

*\* The unit has been identified as part of the above mentioned national vocational qualifications and has by that been referenced to the same EQF as the qualification.*

#### 5. Information about units of learning outcomes that can be completed

This MoU deals with units of learning outcomes in terms of knowledge, skills and competences and thus shows what a student comprehends, understands and is able to do. The description of the learning outcomes and any other related information are included in the Learning Agreement. Each unit will be assessed according to the agreed upon procedure (observations).

The learning outcomes of the mobility will be documented using the Europass Mobility document. The Europass Mobility is a personal document, which is used to record an organised period of time (a mobility experience) that a person spends in another European country for the purpose of learning or training.

The following VET centres are accredited to deliver and assess the units of learning outcomes according to the Quality Criteria agreed on for those qualifications:

<b>Mobility period</b>	<b>VET centre</b>	<b>Unit</b>
1	Spain: Politeknika Ikastegia Txorierri (PIT)	Working with FMS (Flexible Manufacturing System) systems
2	The Netherlands: Radius College	Working with motor controllers
3	Finland: Optima	Working with analogue signals
4	Sweden: Elof Lindälvs gymnasium	Working with safety systems

## 6. Procedure for assessing learning outcomes

According to the EURIAC assessment strategy, the students will be assessed by observation. For specific information about assessment criteria, please refer to the Learning Agreement.

## 7. Credit transfer procedure

By signing the MoU, the EURIAC institutions empower the receiving institution to deliver the allocated EURIAC unit of learning outcomes and to assess the learning outcomes. The sending VET institution also consents to transfer, validate, recognise and – in cases where credits are implemented in the national VET systems – to give credit to the successfully completed units of learning outcomes.

The achieved learning outcomes will be documented by using the EUROPASS Mobility.

The achieved learning outcomes will not be carried out and assessed again on return. Although the units are assessed abroad they are not replacing a final examination at the end of training.

## 8. Quality Assurance

The hosting VET centre/institution will assure the following quality standards:

- a. The hosting institution provides a safe training environment for the student participating in the mobility, in which he/she can develop and learn;
- b. The hosting institution takes into consideration the level of competence development of the student participating in the mobility (the years of training/work experience);
- c. The hosting institution allows enough time, room, means and resources for the training and coaching the student participating in the mobility;
- d. The hosting institution assures that the activities of the student aim exclusively at the completion of the units of learning outcomes;



- e. The hosting institution appoints a person who will be the representative of the working place, coaching and supervising the student;
- f. The hosting company cooperates with the hosting VET centre to fulfil the arrangement of work placement described in the LA.

## 9. Signatures

The competent bodies listed in this MoU confirm by their signature, the accuracy of the content and agree to all principles and procedures expressed herein.

Made in four copies, one for each partner.

	<b>Sweden</b>	<b>Finland</b>	<b>Spain</b>	<b>The Netherlands</b>
<b>Place</b>				
<b>Date</b>				
<b>Signature and stamp</b>				

## Appendix

Framework Conditions Regarding EURIAC Implementation  
EURIAC Learning Agreement *(including the EURIAC Units of Learning Outcomes  
and Assessment Grids)*

*(Please attach the documents above when creating the MoU)*