



ATCR

Training Center Romania



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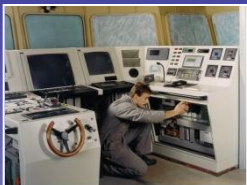


History ATCR

- The project started in October 2006 and there is no end defined.
- Main reason for starting ATCR is that there are not enough good educated people in Western Europe from University in the electrical and automation domain.
- Companies interested to have educated people: Alewijnse and since 2007 also other companies in the domains Marine, Industry and Utility.
- From 2008, ATCR has extended in 3 cities: Galati, Iasi and Brasov

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Target group



Final year university students or just graduated university students.



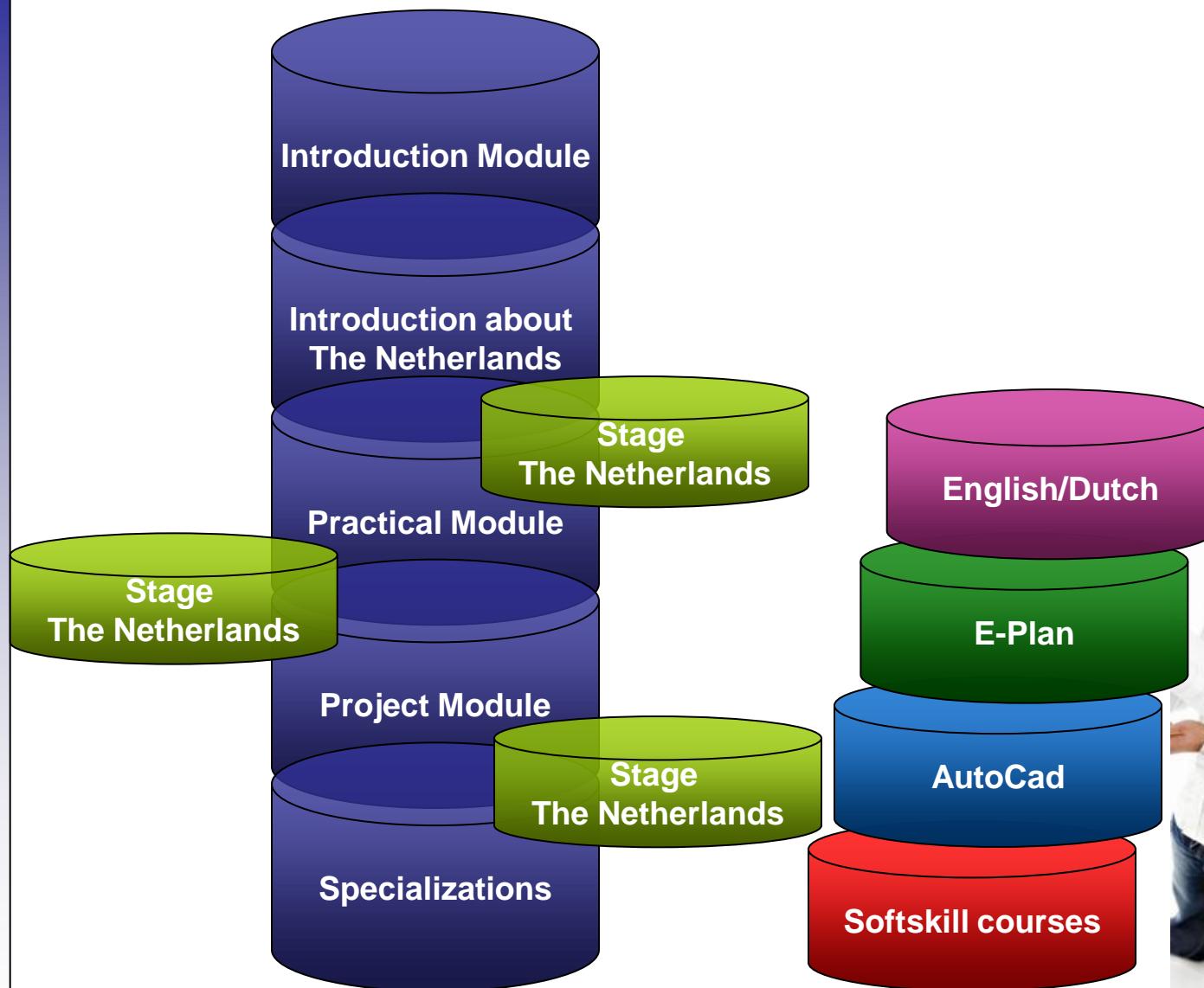
1 Year training for students or 1 year training when graduated.



Labour contract

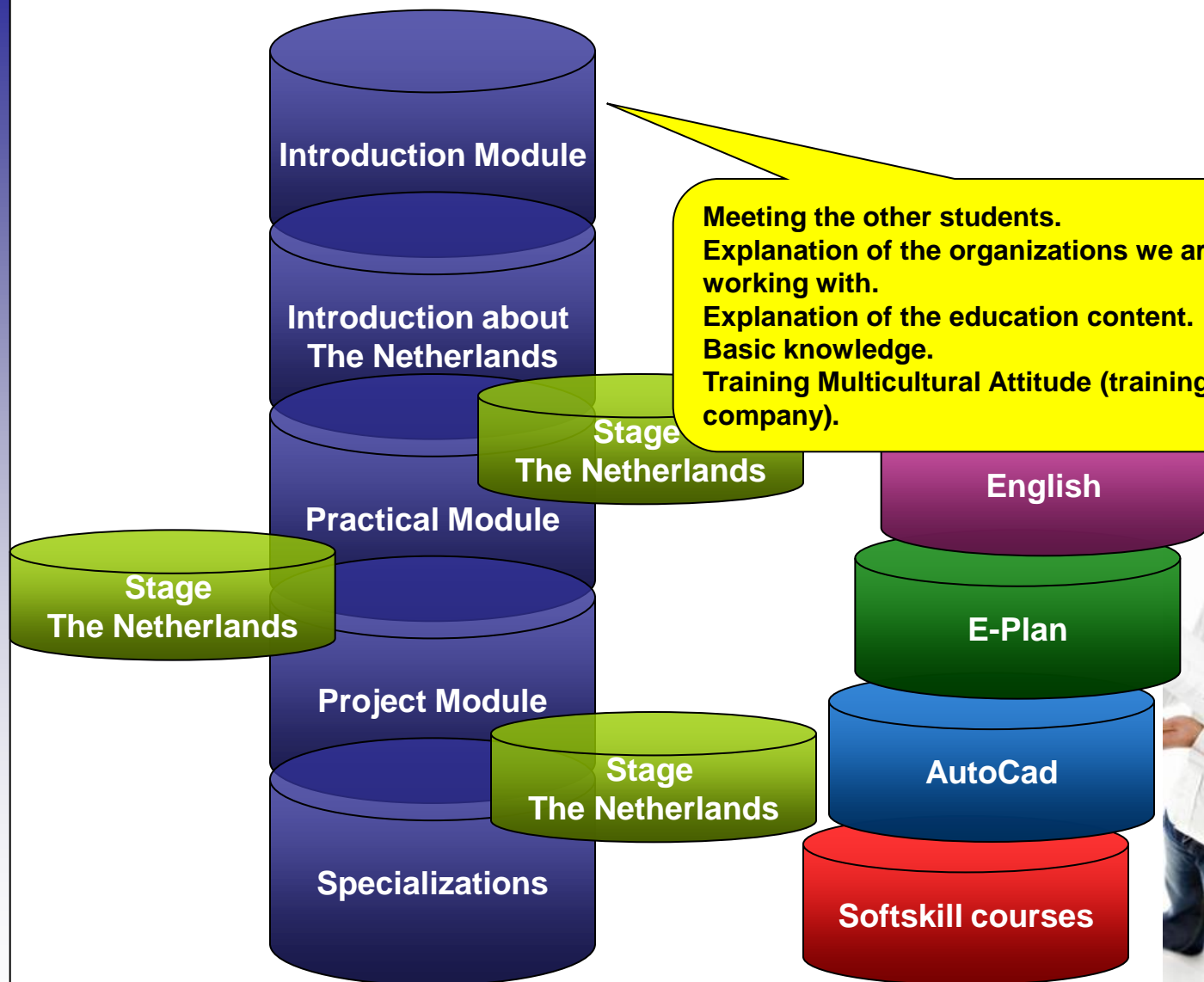


ATCR program



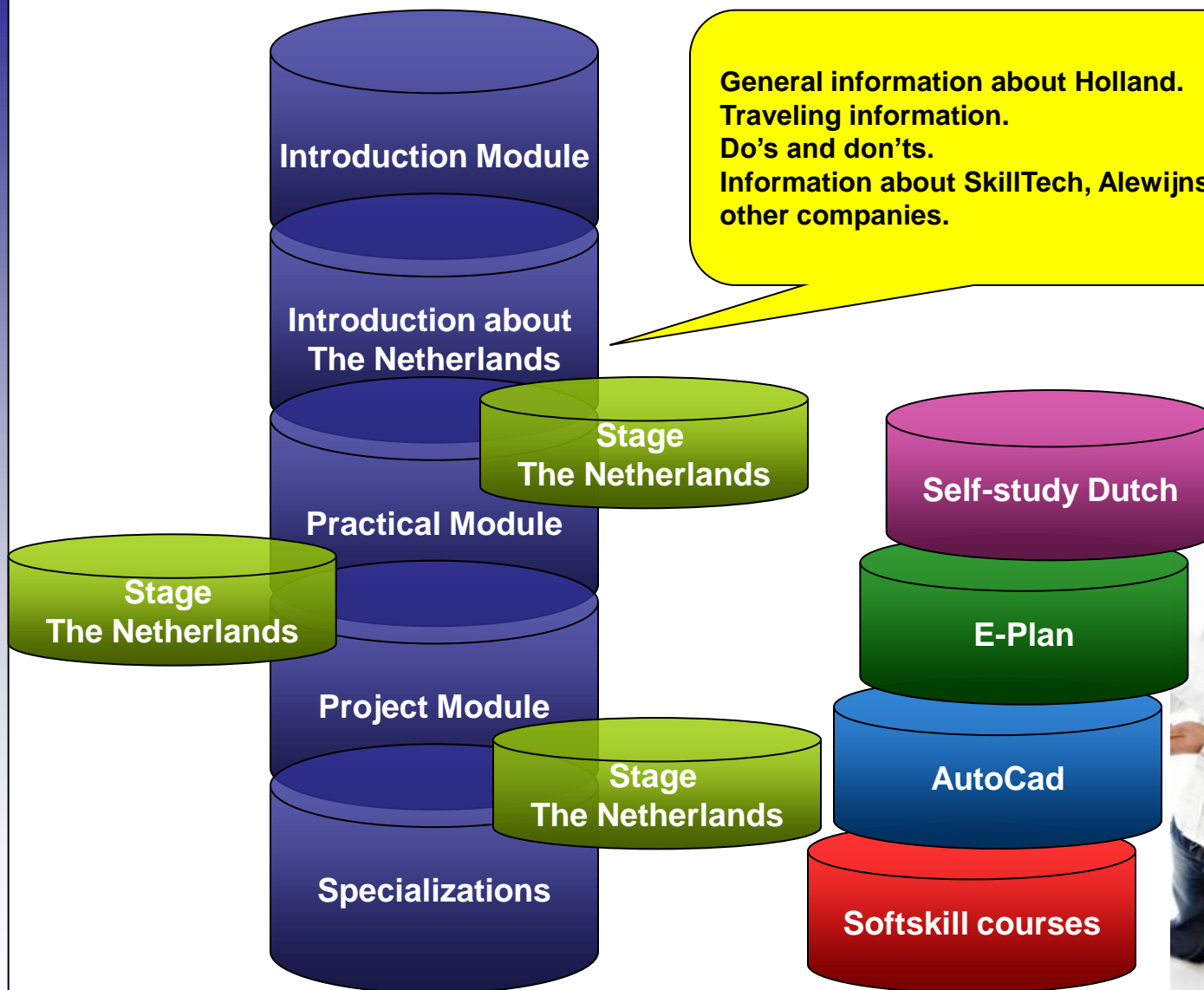


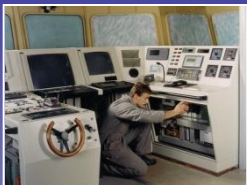
ATCR program



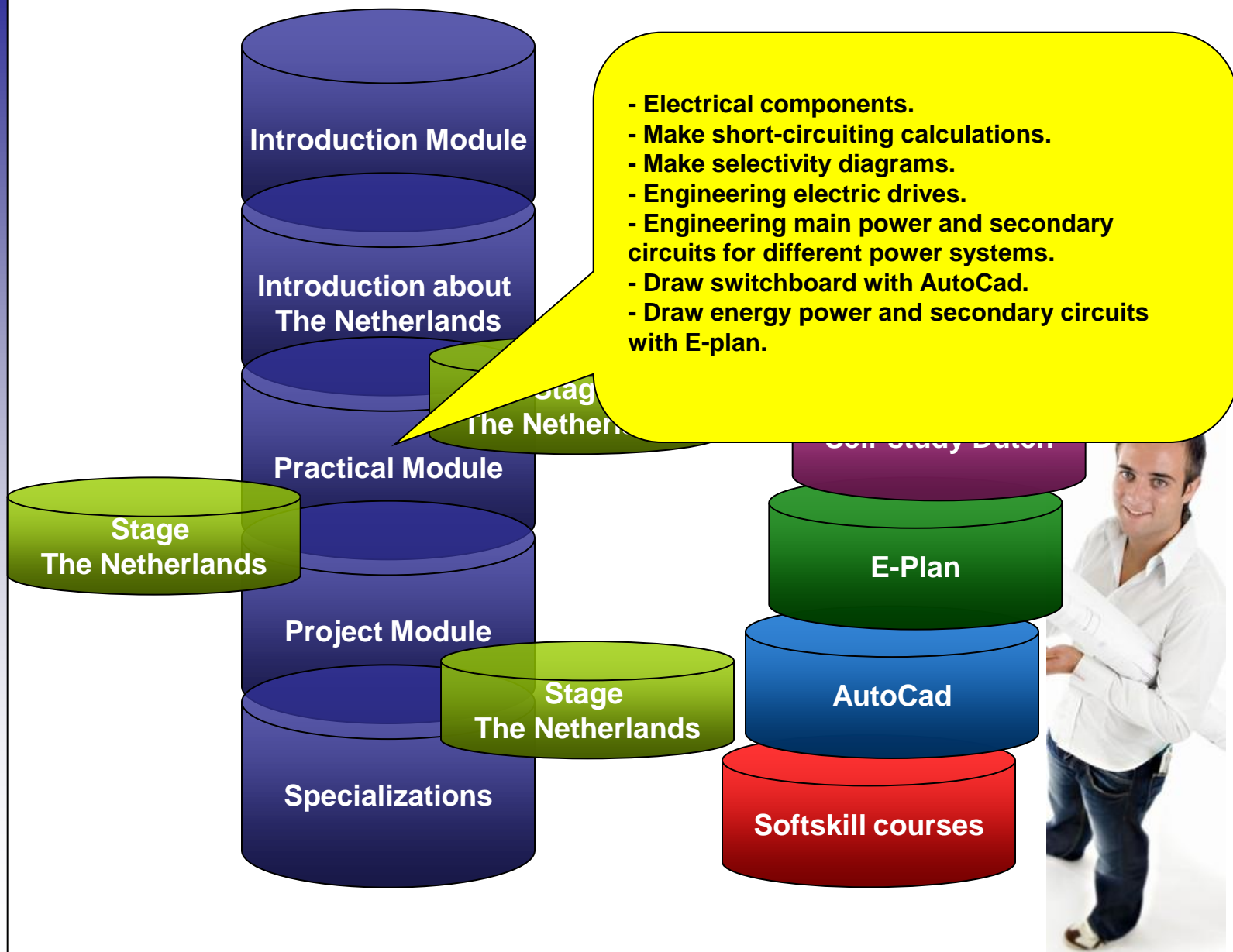


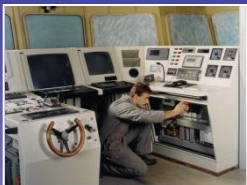
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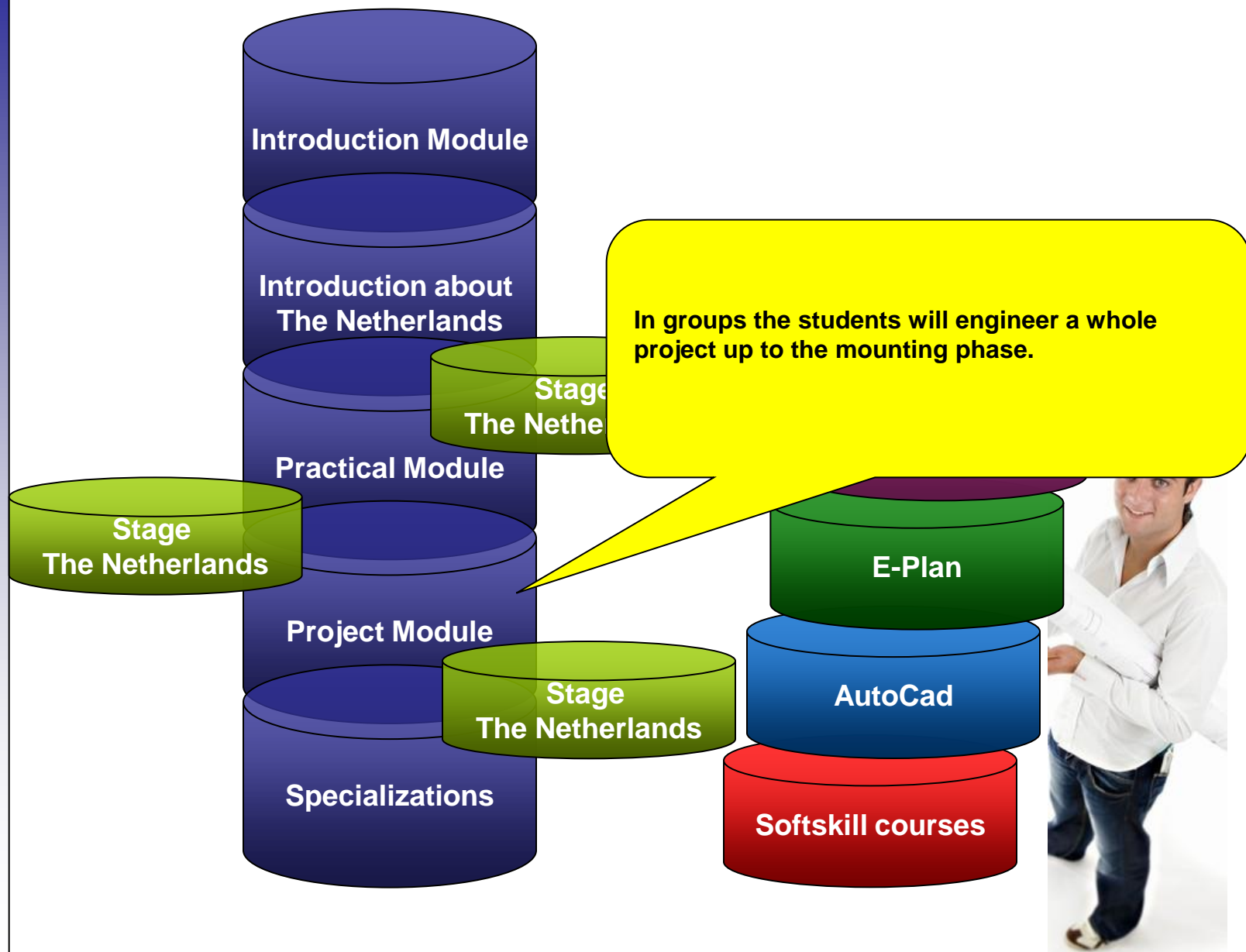


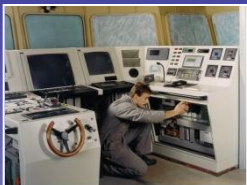
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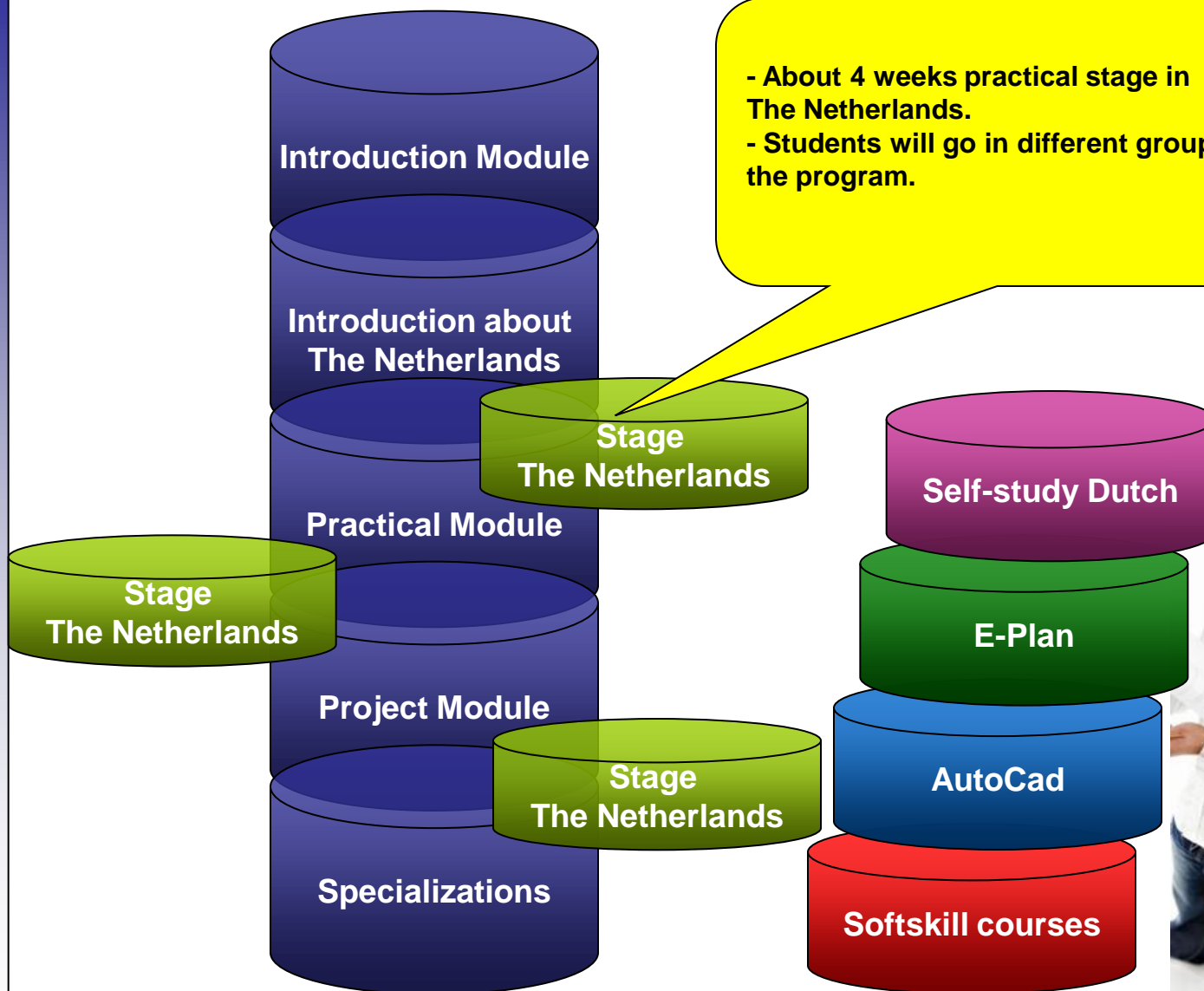


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Depending the interests, the possibilities and the capacity of the students they can choose 1 or more specializations

Intro

Engineering

Commissioning

Service-Engineer

Software-Engineer

Studying several different power systems and the influence these systems have on each other. Studying secondary Installations.

Studying several different systems and the influence these systems have on each other. Know limits. Product-Trainings.

Product specialization. Engineering and testing of specific systems.

Specialization in Siemens PLC, SCADA, ProfiBus, ProfiNet, Frequency – converters and sensors.

Intro
The

Prac

Stage
The Netherlands

Project Mod

Stage
The Netherlands

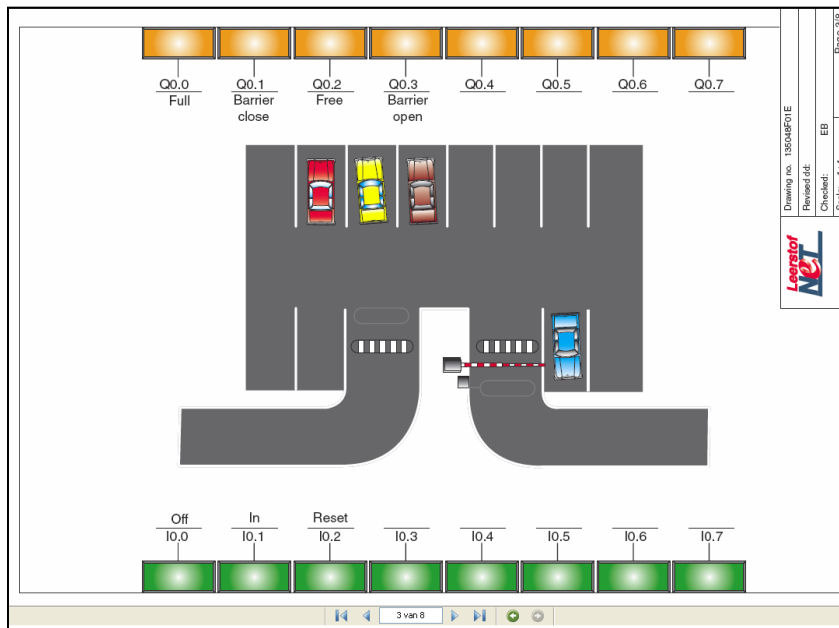
Specializations

AutoCad

Softskill courses



ATCR Practical Center



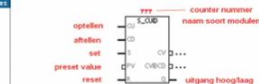
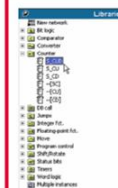
Additional teaching material

Programming

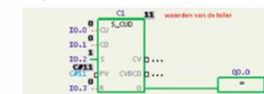
Programming exercise I.12

Parking garage

Counters (S-CUD)



An illustration of an Up/Down counter is shown here and a counter viewed with the monitor function.



Counter viewed with the monitor function.

Q (Exit)

The exit is high if the counter has a value of 1 or higher.

CU (Count Up):

If there is a high signal on "CU", then 1 is added to the counter.

CD (Count Down):

If there is a high signal on "CD", then 1 is deducted from the counter.

S (Set)

If there is a high signal on "Set", then the counter is set to the value that you entered by "PV". For example: if the counter was on 4, and "PV" is set to 20, when "Set" becomes high the counter is set to 20.

R (Reset):

If there is a high signal on "Reset", then the counter is set to 0 and the output becomes low again.

PV (Preset Value)

You can enter a constant value at "PV" (C#-value-). For example C#140 or C#010. You can use values from 0 to 999.

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SIEMENS PLC MODULE II

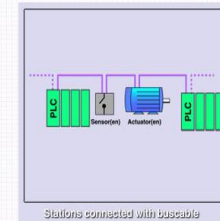
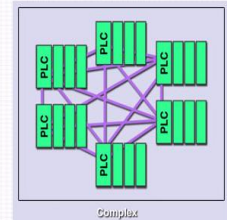
HARDWARE CONFIGURATION

SIEMENS PLC MODULE III - PROFIBUS I

WHAT IS A BUS?

MAIN MENU

The word BUS comes from English and actually means "common means of transport". This is also what happens in practice. All data goes together over one cable in a bus network.



If one was to connect all stations that have to exchange information one by one the number of cables that would be needed for each extra station would increase enormously. For example, if it was required to connect six PLCs with each other a large number of cables would be needed. This would make a network enormously complex, and metres or even kilometres of cable would be required.

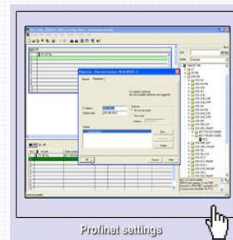
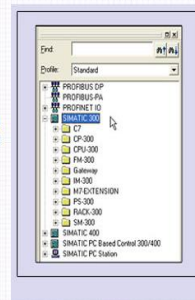
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Now construct the hardware according to the practical module. You will find the parts under "SIMATIC 300" at the right of the screen in the catalogue. Make sure that the I/O cards are under "SM-300".

Note

When the CPU is selected a window will be opened with settings that are only needed for Profinet (Siemens PLC Module III Profibus & Siemens PLC Module IV Profinet).

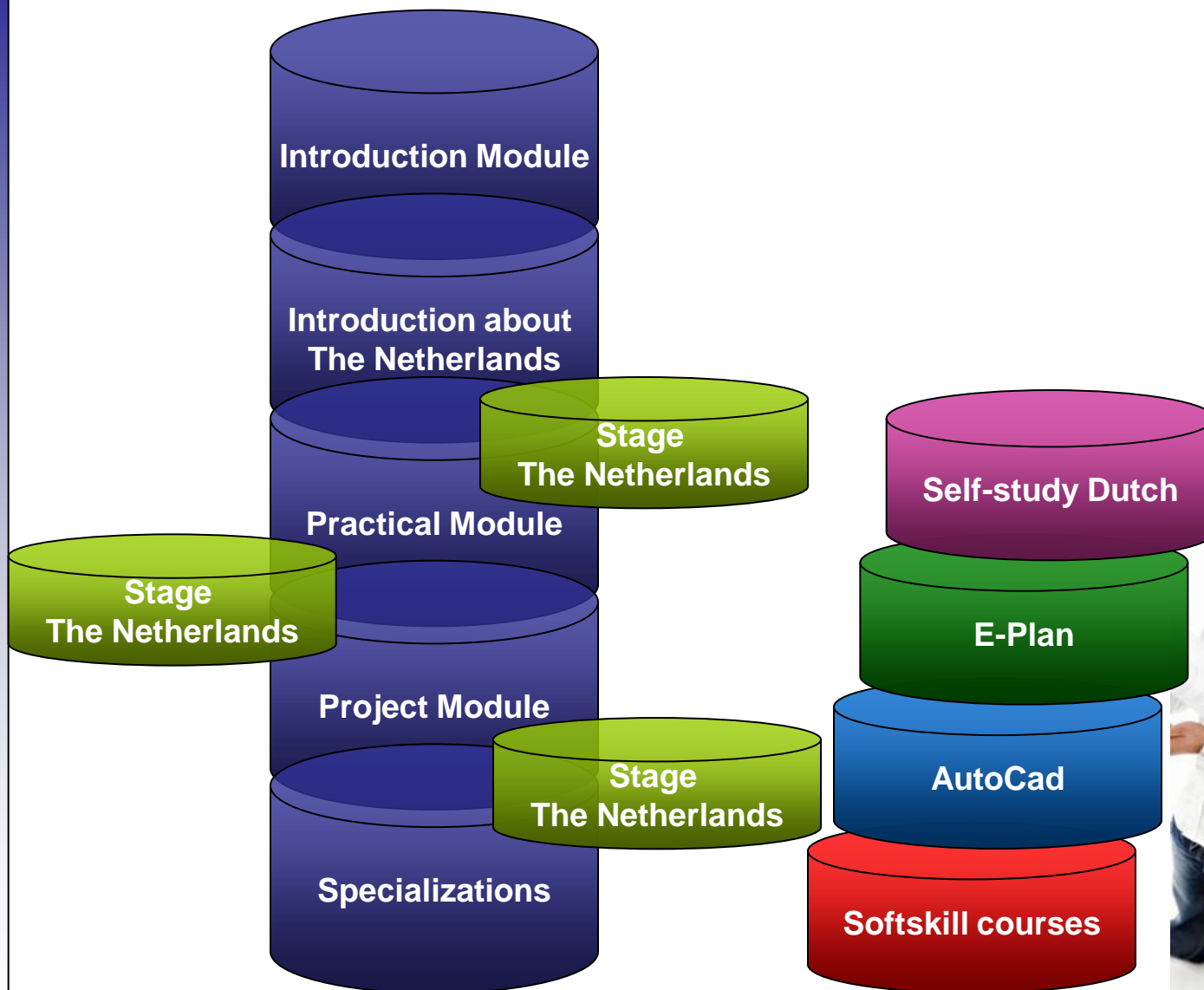
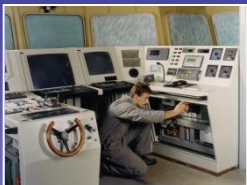
Close the window by pressing "OK".



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ATCR program





Training program starting 2009

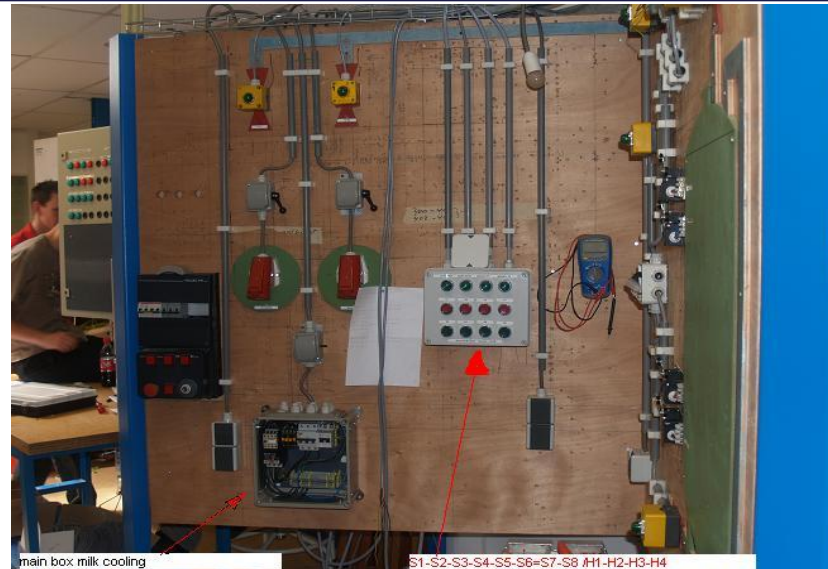


No. of trainees for Galati : 24

Schedule: 6 hours/day, Monday-Friday

Period : 1 year

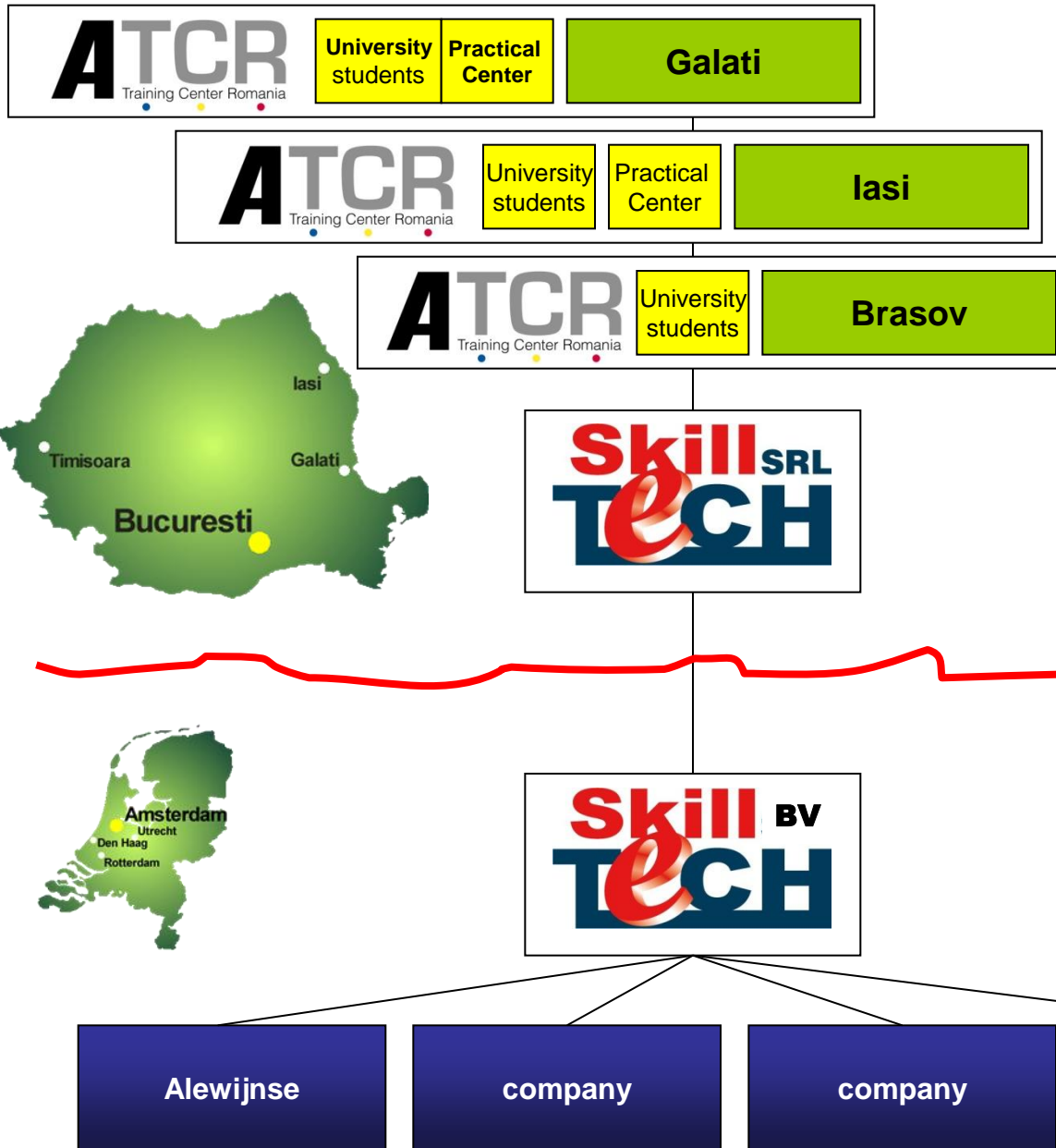
Group 1 will train one week in University
Group 2 will train one week in Practical
Center
Every week they change places



main box milk cooling

S1-S2-S3-S4-S5-S6=S7-S8 /H1-H2-H3-H4

Organization



How to join



Send your CV to ATCR

Str. Delfinului nr 3, 800030 Galati, Phone 0742158919, 0758013858, 0236 326500

E-mail info@atcr-pc.eu

Coordonator : Mariana Dumitrescu, Mariana.Dumitrescu@ugal.ro, tel 0747038471