


Education and Culture
Lifelong learning programme
LEONARDO DA VINCI

Motto: "SAPER VEDERE"
Leonardo da Vinci

**DEVELOPING OF TRANSNATIONAL COMPARABLE
CRITERIAS OF INITIAL VOCATIONAL TRAINING
CHEMICAL PROFILE**

Leonardo da Vinci Project: RO/2005/PL 95175/E



INDUSTRIAL CHEMISTRY COLLEGE, PITESTI – ROMANIA

Project Coordinator: MAGDALENA ZAHARESCU

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23 MARCH, BUCHAREST - ROMANIA

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THE PARTNERSHIP

- PROMOTER (SENDING ORGANISATION):**
**GRUP SCOLAR DE CHIMIE INDUSTRIALA PITESTI ROMANIA
(INDUSTRIAL CHEMISTRY COLLEGE, PITESTI – ROMANIA)**
- RECEIVING ORGANISATIONS:**
 - BERUFSSKOLLEG UERDINGEN –**  
KREFELD, GERMANY - Host School
 - BAYER INDUSTRY SERVICE UERDINGEN – training centre**
- OTHER PARTENERS:**
 - ⇨ **SIEMENS COMPANY**
 - ⇨ **ALBERDINGK BOLEY COMPANY**
 - ⇨ **KREFELD UNIVERSITY**
 - ⇨ **VOLKSHOCHSCHULE**
 - ⇨ **KREFELD CITY HALL**
 - ⇨ **DUISBURG CITY HALL**


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THE PROMOTER




THE INDUSTRIAL CHEMISTRY COLLEGE PITESTI - ROMANIA

Is an initial training organization (1965) with around **1100 students** (age 15 – 19) and **82 teachers**, with the following areas:

- industrial chemistry
- environmental protection
- informatics
- electro technical
- mechanical
- studies.

■ **Since 1997 hat developed 31 Leonardo da Vinci mobility projects (275 Romanian and German students and 35 teacher).**


■ **2006 – Best practice : “DECRIIT”**




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THE OBJECTIFS





■ **The objectives of the project** completely fulfilled:

- **Experimenting modern training methods, in small mix groups** of beneficiaries, especially practical skills;
- **Developing European dimension** of the initial professional training of the beneficiaries by achieving **new international skills, as result of the program of placement in a different space of work and life;**
- **Developing a European training period by practice** of twelve beneficiaries, for three weeks under the heading of “ Measuring of physical constancies”;
- **Developing the partnership with the institutions involved** in the project, with a view **to the transfer of best practical skills in the training by dual system.**

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THE SELECTION'S CRITERIA

Was done by complex testing by the selection commission.

The selection criteria's were:

- **student on the Vocational School of Industrial Chemistry, Pitești**
- **profile Industrial Chemistry and Environmental Protection;**
- **age >16 year old;**
- **learning and training results;**
- **language knowledge: en/de;**
- **The selection criteria were:**
- **behavior;**
- **general knowledge;**
- **general health;**
- **team work ability**

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THE TRAINING OF THE BENEFICIAIRES (I)

THE PEDAGOGICAL, LINGUISTIC AND CULTURAL TRAINING OF BENEFICIARIES

- **General training**
 - Done previously to the probation, at the promoter institution, over 18 hours; it contained:
 - the **purpose and the philosophy of the Leonardo da Vinci training Programme.**
 - information on the project: the topic/title of the project, targets, foreseen results, activities, screening.
 - **Training for participating in the probation in the host country: general laws, interior regulations**
- **Cultural and pedagogical training**
 - Cultural and pedagogical training was accomplished in **two steps**, both inside the promoter institution and on a thematic level:
 - special training for taking part in the probation, with a view on developing practical skills in the laboratory
 - **methods of initial and long life training in the German system and specially of the dual system in Germany**
 - the development and the economic and social importance of the area where the project took place.
 - **European institutions** (structure, attributions etc.)
 - Cultural traditions in the host country.

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THE TRAINING OF BENEFICIAIRES (II)

Language training

- **In order to develop the communication skills** of the beneficiaries in English/ German, 42 hours in the promoter institution and 18 hours in the host institution, with the following objectives:
- **developing the technical vocabulary**, necessary for getting the documentation in order to fulfill tasks during accomplishing and presenting the accomplished work.
- **Developing the linguistic skills** of the beneficiaries through oral and written communication **necessary for accomplishing the activities foreseen in the daily programme of placement.**

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THE PREPARATION OF THE BENEFICIAIRES (III)

Professional training

- **Before the placement** - the beneficiaries took part in a programme of theoretical training and technical training, with a main objective in developing lab skills in order to accomplish the practical works set in the probation programme (42 hours).
- **During the placement** - the training programme was based on introducing the beneficiaries to the didactical methods used in the initial profession training process used in the training sector Ausbildung of the company BKU.

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THE PLACEMENT CONTENT

- **probation practice : goal, content;**
- **documentation programme in several institutions;**
- **pedagogical, linguistic and cultural training programme ;**
- **cultural programme: aims;**
- **knowledge evaluation;**
- **certification : of the placement, of the project;**
- **monitoring (included NA Bucharest – conclusion).**

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THE CERTIFICATION OF THE PLACEMENT (I)

- **The certifying** took place after evaluating the practical period and it required sustaining a two – steps examination:
- **assessing the results of the practical works accomplished during the practical training;**
- **the presentation in English of a work done during the practical period, witch took place during a videoconference organized in the Training Centre of Computer Skills” in host school Berufskolleg Uerdingen together with the Industrial Chemistry School in Pitesti.**
- **The beneficiaries received participating certificates according to the model enclosed.**

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THE CERTIFICATION (II)

decent

Deutschland

Leonardo da Vinci
EUROPÄISCHES BILDUNGSPROGRAMM
ZERTIFIKAT

Romania

Herr Andrei Costin DINESCU geboren am 09.05.1989 hat im Rahmen des Leonardo da Vinci Programms vom 20.04.2005 bis zum 05.05.2006 an dem Projekt RO/2005/PL 95176/E mit dem Thema „Entwicklung transnational vergleichbarer Qualifikationskriterien in der Erstausbildung in Chemieberufen“ teilgenommen.

Projekthalt:

- Vorstellung des Dualen Systems aus betrieblicher und schulischer Sicht...
- Praktische Laborungen im Ausbildungszentrum der Firma Dayer Business Service.
- Entwicklung von Kooperations-, Kommunikations- und Teamfähigkeit.
- Verantwortliches Handeln in den Bereichen Umweltschutz, Qualitätsicherung, Arbeitssicherheit und Gesundheitsschutz.
- Anwendung der Labormethoden bei der Farma, Allergik, Biologie und Wasserleitung in der Volkshochschule Krefeld
- Entwicklung interkultureller Kompetenz und europäische Dimension der Ausbildung.

Hans Jürgen STEFFENS,
Schule

Detlef WALKOWAK,
Berufsbildung/NT

Magdalena ZAHARESCU,
Projektkoordinatorin

Berufshilf Uerdingen
KREFELD - DEUTSCHLAND

BAYER AG UERDINGEN
KREFELD - DEUTSCHLAND

Grup Școlară Chimie Ind.
PITESTI - ROMANIA

Krefeld 21.05.2006

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OUTCOMING & PRODUCTS

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- **Printing products**
 - Photos ;
 - Lexicon (thematically dictionary);
 - Laboratory guide : « Measuring of the physical constancies » ;
 - Portfolio;
 - News papers;
- **Multimedia products:**
 - CD;
 - VCR;
 - Power Point display.

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OTHER OUTCOMING & PRODUCTS

- **Web page:** <http://www.decrit.lx.ro>
- **Training materials for laboratory:**
 - Distillation installation ;
 - Rectification installation

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THE PROJECT EVALUATION

The evaluation of the project was a **permanent process** and has followed the next criteria:

- concordance between the targets and the results** for every step of the project;
- building the foreseen out coming & products;**
- disseminating and fructifying the results;**

The evaluation of the placement had two steps:

- evaluating the probation of training**
- final evaluation of the placement and of the promoter institution.**

The final evaluation of the placement was done by a mix Romanian-German team made up of the principle of the host school Herr Hans Jürgen Steffens, the project responsible, the responsible for the profession formation of the beneficiaries on the part of the hosts.



Here are **the evaluation methods:**

- the final report of assessment of the hosts institutions;**
- the final report of evaluation of the promoter**
- individual reports of the beneficiaries**
- the development in partnership of other mobility projects.

- **Following the visit of in situ screening of the team from the NA, the project was framed as example of best practices.**

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THE DISSEMINATION OF THE PROJECT RESULTS(I)

- The dissemination of the results has been done according to **a plan conceived „step by step”**, which **included several activities on a local, county, national and international level**. The following dissemination activities have been developed:
in Germany:
 - **Video-conference** on the 5th May 2006, on the occasion of the **opening Informatics Knowledge Center**). **The opening of the Center was set for the placement perioade in order to celebrate 10 years of partnership** between the Berufskolleg and the of Industrial Chemistry College Pitesti. **The local and county officials (including Euro MPs) were present and a video- conference with the promoting institution opened the activity.**
 - In the local news paper **Krefelder Zeitung** information about the project was published on 6th May ;;
 - **in the teachers bord of Berufskolleg Uerdingen** the placement project was presented;
 - **the results presentation – on the 19th May 2006**, was done on line, from the IKC in Berufskolleg Uerdingen. **The promoter had the possibility to watch the results presentation and the validation of the skills by video-conference;**

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THE DISSEMINATION OF THE RESULTS(II)


In Romania:

- the project presentation in teachers bord in technical cathedra in the Vocational College of Industrial Chemistry Pitesti on the 25th June 2006;
- In the Simposyone „**The Impact of Chemistry and of science on the contemporary development**” organised by **National Chemistry Society , the Arges branch**, inside the Pitesti University on 27th May 2006, two introduction works were presented by the project coordinaters and by two students ;
- dissemination in the **TV Show „For ever Young”**, broadcast by TV Channel **Terra Sat Pitesti**, **in which took part all the beneficiaries with the participating teachers;**
- In the local **news paper** from Pitesti (**Curierul, Observatorul**) information about the project was published;
- **The local news on Antena 1 TV Channel from Pitesti.**
- **The dissemination of the project results, in the Arges County**, accomplished in partnership with the Dep. for the Administration of Community Programmes, in side the **reunions organised on a county level by the Arges County School Inspectorate** (methodical meetings, school principals , etc.);
- articles published in the school newspaper „Alchimiștii”;
- the dissemination of the project results on 5th - 7th **international Seminary from Sofia ”Thematic Monitoring Group 5”** ;
- November 2006, in the dissemination of the project results in an international Seminary in Rm. Valcea City, Romania.


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KEY RESULTS OF THE PLACEMENT



- **beneficiaries : new skills and ability;**
 - European training dimension ;
 - “European citizen”
 - linguistic knowledge;
 - new intercultural knowledge, new intercultural skills;
 - Better international image of Romania and of the Romanian learning process;
 - more visibility of the Leonardo da Vinci Programme, follow of the results dissemination;
- **the placement gave the beneficiaries the opportunity** to add to their professional training in another country of a growing Europe. **The placement contributes to increasing mobility on the European labor force market and also to a better knowledge and transparency of transnational skills**
- **Best practice : strong social partnership (Bayer, Siemens, Krefeld City Hall, schools university, etc.);**

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THANK YOU FOR ATTENTION!

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