

## Work package 2 description

<b>Work package number</b>	2	<b>Start date or starting event</b>					Month 3
<b>Work package title</b>	Training Schemes for Geological Disposal						
<b>Activity Type</b>	COORD						
<b>Participant id</b>	10	1,2,4,6,15	3	11	7,8,9,12,13,14	TOTAL	
<b>Participant short name</b>	ITC	INPL, CU, Micans, POSIVA, ITN	TUC	ENEN	ANDRA, ARAO, RAWRA, ENRESA, GRS, NDA		
<b>Person-months per participant:</b>	5.5	1.5	2	6	1	27	

### Objectives

The objective of this work package is to develop different training schemes applicable to the geological disposal field. The most important part of the work is dedicated to the design, development and test of a Professional development programme that will be evaluated according to the principles developed in WP4 with the aim of producing a European PD diploma in geological disposal. In accordance with the model presented in figure 2, the consortium will build up the structure and content of at least one PD curriculum by bringing together resources identified in WP1 including possible inputs from modules developed in the PETRUS Master's curriculum. During the course of the project, a pilot PD programme will be launched for evaluation and improvement purposes.

The work package encompasses two other tasks:

- Propose a relevant framework and the general content of a multidisciplinary training programme for PhD students mutually agreed by the consortium. The project as such will not produce the corresponding courses, but they will be identified from the consortium and from the network.
- Propose a strategy and a rational approach for linking with the EC research projects for integration of the informative training courses in the field of geological disposal into the training schemes.

### Description of work

#### *T2.1 Training scheme for Professional Development*

Based on the list of available or prospective courses from WP1, this task will furnish pedagogic materials which can be suitable for further development of a mutually agreed training programme addressed to the PD participants. The aim is producing competent professionals and scientists for the end-users in research, universities and industry having to some extent a broad view on the subjects related to the Geological disposal (i.e. multidisciplinary competence).

The work expected in this task will follow the scheme presented in figure2. At the first part of this task appropriate training themes will be selected taking into account the needs identified in previous studies<sup>9</sup> and WP1, the priorities that will be expressed by the end-users and the profile of the professionals which the programme will be addressed.

In the learning (instructional) phase, from resources identified in WP1 the appropriate set of courses that cover the training themes will be accredited to the programme. This encompasses also the selection of delivery mode suitable for each selected course. The learning process document (instructional document) (D2.1) will describe this package of courses and how they are interconnected, and corresponds to the plan of the Professional Development programme (the prototype PD programme). It shows how the programme as a whole is suitable for achieving objectives and how the assembling of different courses is coherent for

<sup>9</sup> CETRAD and ITC School tracks: Track 1: Design and Engineering; Track 2: Safety Evaluation; Track 3: Geology, Hydrology and Geochemistry; Track 4: Fundamentals of Geological Disposal; Track 5: Programme Planning and Public Interaction and IAEA URF Network themes: Theme 1: Methodologies and Fundamentals of Geological Disposal; Theme 2: Social Interactions and Outreach; Theme 3: Numerical modelling in its various forms.

constituting a curriculum. This document must obtain the agreement of the consortium (M2.1). The production of supporting learning materials for the Professional Development programme's facilitation process will be launched. The materials of the existing courses are included in the prior knowledge of the partners who have developed the training materials and they are not a product of this project. In order to assure compatibility with the objectives of the learning and facilitation processes, the content of each course within the package must first be evaluated according to the “internal evaluation” procedure which will be developed in WP4. This evaluation will then lead to the accreditation of the overall prototype PD package using the procedures defined in WP4 (noting that the accreditation procedure addresses not individual courses, but the courses within a coherent programme which can contain different pathways or options). After agreement of the consortium (M2.2) the results of both the internal evaluation and the accreditation will be reported in the Accreditation Document (D2.2).

The consortium will test the delivery of prototype PD curriculum with a PD pilot. The main objective of the pilot is to demonstrate that the proposed programme fulfills all the qualification requirements determined in WP4. For this purpose, networking and marketing for recruiting a representative group of participants will be carried out and an electronic course brochure will be distributed to the potentially interested organisations inside and outside the consortium. After recruitment of the participants, WP2 will run the pilot programme (D2.3). During and after the delivery of each course, the assessment procedures will be applied. This concerns both “feedback from learners” and “evaluation by trainers” as defined in WP4. The results of the PD pilot will be reported and analysed in a synthesis report (D2.4), which will also identify performance objectives for a future PD programme. The estimated number of participants targeted by the pilot is 8 to 15. However, the entire programme cannot be tested during the project since such a PD curriculum having qualification objective is generally tailored for a longer period (2-3 years). Besides, all of the participants are not usually intended to follow the entire programme but part of it regarding their initial background. According to the most suitable theme and/or profile defined above (T2.1) and the requirements of the PD prototype qualification procedure that will be defined in WP4, a set of appropriate courses will be developed and tested during the PD pilot. In addition, several modular courses will be offered from the Master programme (WP3) in accordance with the defined theme. Further more the academic partners (INPL in lead) evaluate the performance objectives of the courses as pedagogic materials for PhD studies at the end of the project (D2.5)

**T2.2 Informative courses**

The aim of this task is to assess how informative training courses link with the achievements of major EC research projects and how these can be incorporated also into the PD curriculum. The actions include networking with projects like TIMODAZ (FP6), MODERN, and FORGE (proposals) with the objective of incorporating the results into training schemes in WP2 and WP3. The consortium will bring the scientific elements and the basic knowledge, which are needed for understanding a specific topic and the research project partners complete these with some up to date results drawn from their research activities.

<b>Deliverables:</b>	
D2.1: PD Learning Process (Instructional) and prototype programme plan	month 15 (WP leader + all partners)
D2.2: Accreditation document	month 18 (WP leader + all partners)
D2.3: Demonstration of the prototype PD programme	month 24 (WP leader + all partners)
D2.4: Synthesis report incl. Performance objectives for PD programme	month 34 (WP leader)
D2.5: Performance objectives for PhD programme	month 32 (INPL +Academic partners)
<b>Milestones and expected result</b>	
M2.1: Suitable training courses (Performance objectives)	month 12
M2.2: Approval by the consortium of the accreditation document	month 18