



Horizon 2020
Programme

GENIORS

Research and Innovation Action (RIA)

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Packages tested and released

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Summary

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Approval

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D12.6 PUREX online training packages

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Work Package 12: Training and Education

ULEEDS

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Contributors

Work contribution to the following Domains and Work-Packages

☐ DOMAIN 1 WP1	☐ WP2	☐ WP3	☐ WP4
☐ DOMAIN 2 WP5	☐ WP6	☐ WP7	
☐ DOMAIN 3 WP8	☐ WP9	☐ WP10	
☐ DOMAIN 4 WP11	X WP12	☐ WP13	

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INTRODUCTION

Work Package 12 on Training, Education and Knowledge Management includes task 3 which will create online training packages that cover the Purex and iSanex/Ganex separation processes.

Each of the packages will contain information that would be suitable for advanced undergraduate or masters level students and give them a comprehensive background on history of their development, ligand structure and behaviour and application at scale.

The packages will be the equivalent to 2 UCS/1 ECTS. This is equivalent to 20 hours of contact time and will be delivered via 3-4 hours of online material.

The final packages will be made open access for use by all students wishing to apply to courses run by project partners or for in house training.

This report covers D12.6 and describes the training packages.

ONLINE PACKAGE CONTENT

The training package covers Purex and advanced reprocessing concepts such as iSanex and Ganex.

On completion students will:

- Understand what principles of solvent extraction when applied to nuclear operations;
- Understand reprocessing and the type of technology used in current facilities ;
- Be able to identify the key chemistry and compounds used in the Purex, i-Sanex and Ganex flowsheets
- Be able to compare the advantages and disadvantages of the Purex, i-Sanex and Ganex flowsheets.

There are four lessons that formed the PUREX training package, covered in D12.4.

- **Part 1: Introduction to aqueous recycle**
- **Part 2: Applied PUREX (Head End)**
- **Part 3: Applied PUREX (Separation)**
- **Part 4: Applied PUREX (Finishing)**

The final part of the online training course covers the new flowsheet variants that have been developed through previous EU programmes (EUROPART, ACSEPT, SACSESS etc.) and are the subject of further development in GENIORS and is titled:

- **Part 5: Advanced Aqueous Recycling**

The training packages covers an introduction to the development of flowsheet variants and then a summary of three processes: iSANEX, EXAM and EURO-GANEX.

The content takes the form of structured .mp4 video files; with voice narration and an animated presentation. Students can navigate through the videos at their convenience. Video and sound recording has been carried out using professional editing software, through the University of Leeds's Digital Education Service.

The package can be found at:

<https://mymedia.leeds.ac.uk/Mediasite/Channel/b9ab636af8a44c4a989feed6c2269d855f>