



ChemSkills

Enabling the green and digital skills
transformation of the chemical industry.

D4.1 AVAILABLE TRAINING MATERIALS AND OFFER PILOTING REPORT

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1. Available Training materials and Offer Piloting Report

This report contains information on the delivery of “*Available training materials and offer piloting report*” within the project’s first year. To collect relevant information, a template was created requesting detailed descriptions of the existing materials. This template was then distributed to all project partners to inventory the selected number of topics following the project’s structure and the various chemical sub-sectors, namely plastics, consumer chemicals, fertilisers, rubber, pharmaceuticals and petrochemicals. All partners currently offering trainings were encouraged to implement these in the EU Skills Hub for piloting and dissemination, where applicable. The latter is a database, or “course catalogue”, containing existing training courses. As of now, it includes more than 180 trainings, available across the EU, either for free or for payment, offered online, hybrid or in person.

Only publicly available training programmes were considered in this report, independent if a fee is required or not. As a consequence, this excludes academic programs, bachelor or master courses, which are mainly offered by the university partners of WP4. The uploaded trainings fulfil the requirements of vocational education and training (VET). Those trainings should equip learners with practical skills for specific jobs and transversal competences needed for both personal development and the labour market.

This deliverable is directly connected to task T4.1 “*Project Consortium Offering Pilot*”.

1.1. WP4 consortium

The following table provides an overview of all WP4 partners and the role of their organization:

Abbr.	Name of WP4 partner	Role
UT	University of Twente (NL)	Training provider
ECEG	EUROPEAN CHEMICAL EMPLOYERS GROUP (ECEG)	labour market actor
NU	Newton University (Czech)	Training provider
VSB-TUO	Technical University of Ostrava (Czech)	Training provider
RHDH V	HASKONINGDHV NEDERLAND BV	labour market actor
IKEM	IKEM-INNOVATIONS-OCH KEMIINDUSTRIERNA I SVERIGE AB (Sweden)	labour market actor
UM	University of Maastricht (UM)	Training provider
CHILL	CHEMELOT INNOVATION AND LEARNING LABS BV (NL)	Training provider
TU Wien	Technische Universitaet Wien (Austria)	Training provider
UNS	University Novom Sadu (Novi Sad Serbia)	Training provider
ECRN	EUROPEAN CHEMICAL REGIONS NETWORK (Belgium)	labour market actor
ITS NTV	ISTITUTO TECNICO SUPERIORE PER LE NUOVE TECNOLOGIE DELLA VITA (Italy)	Training provider
SBG	Sächsische Bildungsgesellschaft für Umweltschutz und Chemieberufe Dresden mbH (Germany)	training provider
UK BA	UNIVERZITA KOMENSKEHO V BRATISLAVE / Comenius Uni (Slovakia)	Training provider
AACR	ZEMEDELSKY SVAZ CESKE REPUBLIKY / Agricultural Assoc (Czech)	labour market actor

In total, 15 different partners are assigned to WP4, with 10 categorized as “training providers” and 5 as “labour market actors”. Training providers are also involved in WP5-10, meaning that all training providers from the whole ChemSkills project are also part of WP4. This guarantees that all information gathered in WP4 is also connected to WP5-10 and vice versa. Seven of these training providers are universities which do not necessarily offer training possibilities other than study programs and curriculums (as mentioned above where the form of the collected training offers was defined).

1.2. Template information training offers

Within WP4, the partners had delivered their input to collect all offered trainings in a well-structured way which resulted in the development of a template. This final template contains the following information about the available training offers within the consortium:

TITLE	INFORMATION
Name of training provider	<i>Institute, University, VET provider, etc.</i>
Name of provided training	<i>Titel of training, max. 10 words</i>
Short description of the training	<i>Max. 300 words</i>
Link to provided training	<i>E.g. website</i>
Domain of the training	<i>E.g. rubber, plastics,...</i>
Value chain	<i>E.g. sales, raw materials, manufacturing,...</i>
Connected WP	<i>E.g. WP 5 - 10</i>
Duration of the training	<i>In hours excluding self-study</i>
Equivalent credit points (ECTS)	<i>E.g. 3.5 ECs</i>
Language of the training	<i>E.g. English</i>
EQF level	<i>EQF level 3 – 8</i>
Target group	<i>E.g. Technician, Researcher,...</i>
Recommended pre-requisite	<i>E.g. A-level, bachelor, master,...</i>
Type of training offer	<i>E.g. Online, onsite, MOOC, virtual,...</i>
Type of provided training materials	<i>E.g. presentation slides, study guides, videos,...</i>
Fee-based training:	<i>Yes/No</i>
Type of certificate	<i>E.g. Digital badge, printed certificate,...</i>
Additional remarks	<i>If applicable</i>

This final template was distributed to all partners on 07.03.2024.

1.3. Training offers within the consortium

The following trainings and materials have been collected and uploaded:

Name of provided training	Responsible Partner	Connected WP
Analytics Translator training	RHDHV	5 - 10
Energy Transition Academy	RHDHV	5 - 10
EFFECTIVE PROJECTS AND TEAMS BY BUILDING TRUST IN DIVERSE TEAMS	RHDHV	5 - 10
Digital Agriculture for Enhancing Competitiveness and Supporting Biodiversity	AACR	7
Fertilization and nutrient balancing in connection with new subsidy and other legislative requirements	AACR	7
Perspectives on Plant Protection in Conventional Agriculture	AACR	7
Sustainable management of nutrients and organic substances in connection with new subsidy requirements from 2023 and other legislative conditions	AACR	7
Bachelor of Circular Engineering	UM	5
Management of Innovation Projects	VSB	5 - 10
Rubber Technology Seminar	UT	8
Basic course: Biotechnology I	SBG	9
Chemical technician (initial VET)	SBG	9
Chromatographic methods – gas chromatography	SBG	9
Industrial Master/Meister, specializing in chemistry (further VET)	SBG	9
Basic course: Microbiology I	SBG	9
Basic course: Microbiology II	SBG	9
Basic course: Molecular biology and genetic engineering work	SBG	9
Pharmaceutical Technician (initial VET)	SBG	9
Aseptisch werken in de life sciences industrie – basisopleiding – Co-Valent	ECEG	9
Basis GMP - ViTalent	ECEG	9
Basis processing - ViTalent	ECEG	6, 9
Basisprincipes CIP-SIP - ViTalent	ECEG	9
Logistieke Opleidingen - PlastiQ	ECEG	5 – 10
Opérateur de production en biopharma downstream process (DSP) - Aptaskil	ECEG	9
Basisopleiding operator in de life sciences – Co-Valent	ECEG	9
Bases de la stérilisation à la chaleur humide (autoclavage et SIP) – Co-Valent	ECEG	9
Industriële Opleidingen - PlastiQ”	ECEG	5 - 10
Technicien de laboratoire en chimie avec spécialisation en techniques chromatographiques - Aptaskil	ECEG	9
Technicien spécialisé en culture cellulaire avancée (Go4Biotech) - Aptaskil	ECEG	9
KUNSTSTOFTECHNOLOGIE – PlastiQ	ECEG	5
What's in it for me? AI in Life Science - Biotechcamp	ECEG	9
What's in it for me? Physical Science-based Digital Process Twins in Life Sciences - Biotechcampus	ECEG	9

In summary, 32 different training offers were identified (status on 28.08.2024). There is quite a disbalance between the different chemical sectors (Fig. 1). 19 training offers are within the pharma sector, while none are available in the petrochemical sector. Additionally, only 6 of these trainings are relevant for all WPs.



Fig.1: Number of offered trainings per WP

These existing trainings will be considered in the next phases of the project, during which a mapping between the identified needs of the different sectors with these trainings will be conducted. If further existing trainings will be identified they will be included in this evaluation.

1.4. Outlook

Building on the achievements of D4.1, it is planned to implement the available training materials on the learning platform and into the Skills Hub platform.

WP4 partners participated in a dedicated online webinar that provided clear guidelines on how to upload the training materials. This step guarantees the dissemination and piloting of the training offers.

Within this implementation, the skills mapping with ESCO, e.g. learning objectives and performance criteria, will be considered.

To guarantee an intensive exchange between all partners and monitor the progress in the work, regular online progress meetings take place.

Annexes

TITLE	INFORMATION
Name of training provider	HaskoningDHV Nederland B.V.
Name of provided training	Analytics Translator training
Short description of the training	<p>Do you want to realize the vast possibilities of Data and Data Analytics in your organization, and get as much value out of it as possible? That's the goal of an Analytics Translator.</p> <p>As Analytics Translator, you create data-driven solutions. For example, artificial intelligence. You embed these solutions in your organization's business operations and through that anchoring, or connection, get more value from your data and benefit from data-driven insights. Data-driven solutions provide opportunities to improve internal operations, realize cost savings and gain competitive advantage.</p> <p>An Analytics Translator is the interpreter who ensures that business operations and data can communicate with each other. Performing this role requires a combination of skills and knowledge in data, analytics and business. As an Analytics Translator, you will be on the front lines of data-driven change in your organization.</p>
Link to provided training	Novius.nl
Domain of the training	Connecting digital and technical domains.
Value chain	
Connected WP	
Duration of the training	1-day on site, 3 days on site or custom made (like a training of one year with 30 training days on site).
Equivalent credit points (ECTS) <u>European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu)</u> :	N.A.
Language of the training	Dutch and English.
EQF level <u>Description of the eight EQF levels Europass</u>	(<u>Description of the eight EQF levels Europass</u>): 5.
Target group	Future analytics translator, information analyst, information manager, Business analyst, data analyst, data scientist, data engineer, data architect, analytics manager.
Recommended pre-requisite	Post graduate in engineering or sustainability domains.
Type of training offer	on site, offline interactive.
Type of provided training materials	

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Fee-based training:	800 EX per training day per person
Type of certificate	Certificate.
Additional remarks	

TITLE	INFORMATION
Name of training provider	HaskoningDHV Nederland B.V.
Name of provided training	Energy Transition Academy.
Short description of the training	Highly specialized insights into all current topics of the energy transition, with the goal to give an overview of difficulties through domains. Ranging from stakeholder management to detailed energy storage solutions.
Link to provided training	Not available on platform yet.
Domain of the training	All topics within the energy transition
Value chain	
Connected WP	
Duration of the training	8 blocks of 6 hours, homework assignments of 2 hours for each block, a case study of 40 hours running through blocks.
Equivalent credit points (ECTS) European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu) :	(European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu)) :
Language of the training	Dutch and English.
EQF level Description of the eight EQF levels Europass	(Description of the eight EQF levels Europass) : 7.
Target group	Post graduate, sustainability consultants
Recommended pre-requisite	Post graduate in engineering or sustainability domains.
Type of training offer	Offline interactive sessions, workshops, key-notes, homework assignments, group use-case assignment, stakeholder interview.
Type of provided training materials	
Fee-based training:	unknown for now.
Type of certificate	Certificate of participation.
Additional remarks	

TITLE	INFORMATION
Name of training provider	HaskoningDHV Nederland B.V.
Name of provided training	EFFECTIVE PROJECTS AND TEAMS BY BUILDING TRUST IN DIVERSE TEAMS
Short description of the training	Effective teams are the core of successful projects, that enable us to meet the clients expectations and to enhance society together. Most of the teams today have a high diversity with differences in knowledge, skills,

	domain expertise and national and cultural background. Working with these teams asks for a specific skillset. Designed specifically for leaders who are committed to fostering a high-trust environment within their teams now or in the future. In the workshop, you will be introduced to the ten criteria for trust: Competence, Openness with Information, Integrity, Reciprocity, Compatibility, Goodwill, Predictability, Well-being, Inclusion, and Accessibility.
Link to provided training	Not available on platform yet.
Domain of the training	social and traversal skills
Value chain	
Connected WP	traversing WP structure.
Duration of the training	2 hour workshop.
Equivalent credit points (ECTS) <u>European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu)</u>):	<u>(European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu))</u> : none.
Language of the training	Dutch or English.
EQF level <u>Description of the eight EQF levels Europass</u>	<u>(Description of the eight EQF levels Europass)</u> : 5.
Target group	Post graduates.
Recommended pre-requisite	None.
Type of training offer	Offline interactive workshop.
Type of provided training materials	
Fee-based training:	unknown for now.
Type of certificate	None.
Additional remarks	

TITLE	INFORMATION
Name of training provider	<i>Co-Valent</i>
Name of provided training	<i>Aseptisch werken in de life sciences industrie – basisopleiding (“Aseptic working in the life sciences industry - basic training”)</i>
Short description of the training	<i>This course will teach you how to work in a cleanroom. Students will get a grounding in microbiology, zoning and monitoring, as well as they will get hands-on experience in gowning and aseptic techniques to produce a sterile medicine.</i>
Link to provided training	https://portal.co-valent.be/nl/detail-opleiding/?educationTemplate=3d31a477-e607-eb11-a813-000d3aabca53
Domain of the training	<i>Pharmaceutical and biotechnology</i>
Value chain	Laboratory employees
Connected WP	<i>WP9</i>
Duration of the training	<i>8h</i>

Equivalent credit points (ECTS) <u>European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu)</u> :	<i>E.g. 3.5 ECs</i>
Language of the training	<i>Dutch</i>
EQF level <u>Description of the eight EQF levels Europass</u>	<i>EQF level 3 – 8</i>
Target group	<i>Professionals starting or recently started in the life sciences sector.</i>
Recommended pre-requisite	<i>No specific pre-requisite is mentioned</i>
Type of training offer	<i>Onsite</i>
Type of provided training materials	<i>Presentations, slides...</i>
Fee-based training:	<i>No - free for employees in the chemistry, plastics and life sciences sector (PC 116 and 207). The training is financed through sectoral contributions.</i>
Type of certificate	<i>Upon successful completion of the module, participants will receive a certificate of attendance.</i>
Additional remarks	<i>Participants will be contacted in advance for an intake in order to tailor the training to their prior knowledge and personal learning questions as much as possible.</i>

TITLE	INFORMATION
Name of training provider	<i>ViTalent</i>
Name of provided training	<i>Basis GMP (Good Manufacturing Practice)</i>
Short description of the training	<i>In this programme, the students will teach the fundamental laws of the pharmaceutical industry. They will learn how everything starts with patient care and how that care translates into a way of working that guarantees 100% quality. Students will deal with GMP, data integrity and the global production flow of drugs and health products.</i>
Link to provided training	<i>https://vitalent.be/opleiding/basis-gmp/</i>
Domain of the training	<i>pharmaceutical</i>
Value chain	<i>production</i>
Connected WP	<i>WP9</i>
Duration of the training	<i>8 hours</i>
Equivalent credit points (ECTS) <u>European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu)</u> :	<i>E.g. 3.5 ECs</i>
Language of the training	<i>Dutch</i>
EQF level <u>Description of the eight EQF levels Europass</u>	<i>EQF level 3 – 8</i>

Target group	<i>Professionals starting or recently started in the life sciences sector.</i>
Recommended pre-requisite	<i>No specific pre-requisite mentioned</i>
Type of training offer	<i>Onsite at ViTalent vzw. Isala Gebouw, Galileilaan 11 b0002, 2845 Niel</i>
Type of provided training materials	<i>Presentations</i>
Fee-based training:	<i>Yes, 300 € (incl. lunch) while it is free of charge for employees in the Chemicals, Plastics and Life Sciences sector (PC 116 and 207); by registering at www.co-valent.be</i>
Type of certificate	<i>E.g. Digital badge, printed certificate,...</i>
Additional remarks	<i>Please add any relevant additional information which is not covered by previous points here, if applicable</i>

TITLE	INFORMATION
Name of training provider	<i>ViTalent</i>
Name of provided training	<i>Basis bioprocessing</i>
Short description of the training	<i>The course teach in theory and practice how living cells are used as production tools to make complex molecules that form the active raw material for a new generation of drugs and health products.</i>
Link to provided training	<i>https://vitalent.be/opleiding/basis-bioprocessing/</i>
Domain of the training	<i>pharmaceutical</i>
Value chain	<i>production</i>
Connected WP	<i>WP9 and, partly, WP6</i>
Duration of the training	<i>In hours excluding self-study</i>
Equivalent credit points (ECTS) <u>European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu)</u> :	<i>E.g. 3.5 ECs</i>
Language of the training	<i>Dutch</i>
EQF level <u>Description of the eight EQF levels Europass</u>	<i>EQF level 3 – 8</i>
Target group	<i>Professionals starting or recently started in the Life Sciences sector.</i>
Recommended pre-requisite	<i>No prior knowledge is required for this programme.</i>
Type of training offer	<i>Onsite - ViTalent vzw. Isala Gebouw, Galileilaan 11 b0002, 2845 Niel</i>
Type of provided training materials	<i>Presentations</i>
Fee-based training:	<i>Yes, 300 € (incl. lunch) while it is free of charge for employees in the Chemicals, Plastics and Life Sciences sector (PC 116 and 207); by registering at www.co-valent.be</i>

Type of certificate	<i>E.g. Digital badge, printed certificate, ...</i>
Additional remarks	<i>N/A</i>

TITLE	INFORMATION
Name of training provider	<i>ViTalent</i>
Name of provided training	<i>Basisprincipes CIP-SIP</i>
Short description of the training	<p><i>This thorough training course takes students through all the essential facets of Cleaning In Place (CIP) and Steam In Place (SIP). They will learn the basics of CIP and understand the crucial setup of plants for optimal cleaning. Get acquainted with cleaning and recipe building strategies to ensure efficient and effective processes.</i></p> <p><i>The course dives deeper into monitoring CIP processes, with a focus on critical parameters and different alarm types for accurate process monitoring. In addition, it explores the concept of steam sterilisation (SIP) and how it can be implemented in the pharmaceutical industry. The course provides insight into monitoring SIP processes, where we identify critical parameters and alarms to manage and optimise the sterilisation procedure. Furthermore, students will learn what reports, statuses and stand times are to improve overall efficiency and ensure compliance.</i></p>
Link to provided training	<i>https://vitalent.be/opleiding/basisprincipes-cip-sip/</i>
Domain of the training	<i>pharmaceutical</i>
Value chain	<i>Engineering</i>
Connected WP	<i>WP 9</i>
Duration of the training	<i>8 hours</i>
Equivalent credit points (ECTS) <u>European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu)</u> :	<i>E.g. 3.5 ECs</i>
Language of the training	<i>Dutch</i>
EQF level <u>Description of the eight EQF levels Europass</u>	<i>EQF level 3 – 8</i>
Target group	<i>Professionals who want to sharpen their skills in CIP/SIP</i>
Recommended pre-requisite	<i>Not specific pre-requisite is mentioned</i>
Type of training offer	<i>Onsite</i>
Type of provided training materials	<i>Presentations</i>
Fee-based training:	<i>Yes, 350 € (incl. lunch) while it will be free of charge for employees in the Chemicals, Plastics and Life Sciences sector (PC 116 and 207); by registering at www.co-valent.be</i>
Type of certificate	<i>E.g. Digital badge, printed certificate, ...</i>

Additional remarks	
TITLE	INFORMATION
Name of training provider	<i>PlastiQ</i>
Name of provided training	<i>Logistirk Opleidingen (“Logistical training”)</i>
Short description of the training	<i>During the theoretical phase, attention is paid to the various basic rules and safety aspects around working with the crane. This includes, among other things, knowledge about the maintenance and inspection of the crane, knowing what a safety function is, the different types of operation and their different possibilities and applications, all pictograms, stability and all possible influences on it, start control, points of attention during hoisting, moving and after work, emergency operation and so on. Afterwards, a theoretical test is held to check whether the trainees have assimilated the knowledge acquired.</i>
Link to provided training	<i>https://opleidingen.plastiq.be/trainings/rolbrug-zonder-ervaring</i>
Domain of the training	<i>Different sectors where the use and H&S knowledge</i>
Value chain	<i>Logistic</i>
Connected WP	<i>WP 5 - 10</i>
Duration of the training	<i>14 hours</i>
Equivalent credit points (ECTS) <u>European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu)</u> :	<i>E.g. 3.5 ECs</i>
Language of the training	<i>Dutch</i>
EQF level <u>Description of the eight EQF levels Europass</u>	<i>EQF level 3 – 8</i>
Target group	<i>Employees (mould setters, set-uppers, operators, ...) who have to work on a company site, in installations, workshops, warehouses</i>
Recommended pre-requisite	<i>No prior knowledge required</i>
Type of training offer	<i>Onsite</i>
Type of provided training materials	<i>Presentation slides, presentations for the theoretical part</i>
Fee-based training:	<i>Yes, 530 EUR. However, for employees of PC116/207, the contribution is of €2 only. Through the structural support of Co-valent, PlastiQ offers this training worth €528 free of charge</i>
Type of certificate	<i>Upon passing the tests, the employee will receive a personal certificate.</i>

Additional remarks	<i>Please add any relevant additional information which is not covered by previous points here, if applicable</i>
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TITLE	INFORMATION
Name of training provider	Aptaskil
Name of provided training	Opérateur de production en biopharma downstream process (DSP)
Short description of the training	L'étape du procédé de fabrication DownStream Process (DSP) est la phase de fabrication qui consiste à capturer et purifier le biomédicament immédiatement après la récolte du fermenteur/bioréacteur (partie USP). Les opérateurs de production seront en charge non seulement d'assister le technicien DSP, mais aussi de réaliser les étapes de nettoyages, de récolte du produit concentré et hautement purifié prêt pour la formulation finale et l'emballage.
Link to provided training	https://www.aptaskil.be/fr/catalogue-de- formations/operateur-de-production-en-biopharma- downstream-process-dsp-liege/
Domain of the training	Biopharma and biotechnology
Value chain	Production
Connected WP	WP9
Duration of the training	46 days
Equivalent credit points (ECTS) European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu) :	Not specified
Language of the training	French
EQF level Description of the eight EQF levels Europass	Not specified
Target group	Technician
Recommended pre-requisite	Screening interview
Type of training offer	Onsite (Liège, Belgium)
Type of provided training materials	Not specified
Fee-based training:	Not specified
Type of certificate	Not specified
Additional remarks	

TITLE	INFORMATION
Name of training provider	<i>Co-Valent</i>
Name of provided training	<i>Basisopleiding operator in de life sciences ("Basic operator training in life sciences")</i>
Short description of the training	<i>In this programme, students will use theory and practice to discover all the basic competences you need to start</i>

	<i>successfully in an operational position within Life Sciences. Thanks to the practical orientation, students' entry into the company will be considerably faster.</i>
Link to provided training	https://portal.co-valent.be/nl/detail-opleiding/?educationTemplate=e8bcbaec-46d0-ec11-a7b5-000d3a4c0ed0
Domain of the training	<i>Pharmaceutical and biotechnology</i>
Value chain	Operator
Connected WP	WP9
Duration of the training	<i>32 hours</i>
Equivalent credit points (ECTS) European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu) :	<i>E.g. 3.5 ECs</i>
Language of the training	<i>Dutch</i>
EQF level Description of the eight EQF levels Europass	<i>EQF level 3 – 8</i>
Target group	<i>Operational profiles (operators, supervisors, team leaders, etc.)</i>
Recommended pre-requisite	<i>No specific pre-requisite is required</i>
Type of training offer	<i>Onsite</i>
Type of provided training materials	<i>Presentations, slides, etc.</i>
Fee-based training:	<i>No, it is free of charge for workers in the chemicals, plastics and life sciences sector (PC 116 and 207). The training is funded through sectoral contributions.</i>
Type of certificate	<i>E.g. Digital badge, printed certificate,...</i>
Additional remarks	<i>Please add any relevant additional information which is not covered by previous points here, if applicable</i>

TITLE	INFORMATION
Name of training provider	<i>Co-Valent</i>
Name of provided training	<i>Bases de la stérilisation à la chaleur humide - autoclavage et SIP ("Basics of moist heat sterilisation - autoclaving and SIP")</i>
Short description of the training	<i>This course will allow students discovering the components of a moist heat sterilisation system, understanding the constraints of a moist heat sterilisation system and operating a sterilisation system (autoclave, SIP).</i>
Link to provided training	https://portal.co-valent.be/nl/detail-opleiding/?educationTemplate=fb8cafd9-cac3-e711-b598-005056b02f9c
Domain of the training	<i>Pharmaceutical and biotechnology</i>
Value chain	<i>Sterilisation unit</i>

Connected WP	WP 9
Duration of the training	8 hours
Equivalent credit points (ECTS) <u>European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu)</u> :	E.g. 3.5 ECs
Language of the training	French
EQF level <u>Description of the eight EQF levels Europass</u>	EQF level 3 – 8
Target group	Company personnel in sterilisation units
Recommended pre-requisite	No specific pre-requisite is mentioned
Type of training offer	Onsite
Type of provided training materials	Presentations, slides, etc.
Fee-based training:	No, it is free of charge for workers in the chemicals, plastics and life sciences sector (PC 116 and 207). The training is financed through sectoral contributions.
Type of certificate	E.g. Digital badge, printed certificate, ...
Additional remarks	Please add any relevant additional information which is not covered by previous points here, if applicable

TITLE	INFORMATION
Name of training provider	PlastiQ
Name of provided training	Industriële Opleidingen - PlastiQ
Short description of the training	<p>The training starts by framing SMED within lean manufacturing. This is done by first explaining the 4 lean basic blocks. Then the SMED theory is explained. This involves explaining the principle with the corresponding analysis tools. The theory is further practised through a practical exercise in which both the SMED methodology and the 4 lean basic blocks are discussed. The course will be structured around 4 main blocks:</p> <ul style="list-style-type: none"> • Basic blocks of lean management • SMED methodology • Analysis tools • Integral assignment (practical case)
Link to provided training	https://opleidingen.plastiq.be/trainings/smed
Domain of the training	All sectors where SMED methodology is applied
Value chain	Manufacturing
Connected WP	WP 5 - 10
Duration of the training	7 hours
Equivalent credit points (ECTS) <u>European Credit Transfer and Accumulation System (ECTS) European</u>	E.g. 3.5 ECs

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<u>Education Area (europa.eu):</u>	
<u>Language of the training</u>	<i>Dutch</i>
<u>EQF level Description of the eight EQF levels Europass</u>	<i>EQF level 3 – 8</i>
<u>Target group</u>	<i>Employees and managers who want to learn about the SMED methodology</i>
<u>Recommended pre-requisite</u>	<i>No specific pre-requisite is required</i>
<u>Type of training offer</u>	<i>Onsite</i>
<u>Type of provided training materials</u>	<i>Presentation slides, workshop method</i>
<u>Fee-based training:</u>	<i>Yes/No</i>
<u>Type of certificate</u>	<i>E.g. Digital badge, printed certificate, ...</i>
<u>Additional remarks</u>	<p><i>The practical case is incorporated into an integral assignment. The immediate application of theory in practice is important in the trainee's learning process. It also allows the trainer to give feedback to the course participants. During the case, an inversion is simulated using a mould (printing press). The printing press is equipped with two jigs. The end products are different in shape and positioning on the sheet in X and Y coordinates. The positioning of figure on paper is an important quality requirement. In this way, the start-up process after the changeover is also integrated into the overall changeover process. Changing the moulds is done with tools, these are elements that pack in the 5S methodology and visual management.</i></p> <p><i>Trainees will apply each step of the SMED process in 4 rounds. They should underpin each step with the analysis tools. The tools will be explained during the theory session. The 4 lean basic blocks are also covered during the integral assignment.</i></p>

TITLE	INFORMATION
Name of training provider	Aptaskil
Name of provided training	Technicien de laboratoire en chimie avec spécialisation en techniques chromatographiques
Short description of the training	Cette formation fournira tout le bagage nécessaire pour le métier de technicien de laboratoire spécialisé en techniques d'analyses chimiques et chromatographiques. Les stagiaires acquerront les compétences requises pour la réalisation d'analyses chimiques dans des laboratoires de recherche et développement ou de contrôle qualité au sein d'industries chimiques, pharmaceutiques, alimentaires ou dans un secteur industriel connexe. Les laboratoires d'aptaskil, équipés d'une large gamme d'équipements utilisés dans tous les

	laboratoires industriels, permettront d’acquérir les compétences lors de nombreuses séances de manipulations pratiques. Une partie des techniques d’analyse rencontrées sont des techniques simples telles que les titrages, pHmétrie, conductimétrie. Mais le module le plus important de la formation (1/3 de la formation) sera consacré à l’apprentissage de techniques de pointes hautement demandées (telles que HPLC, GC, MS, ICP). Au terme des 85 jours d’apprentissage chez aptaskil, l’apprenant pourra effectuer un stage de 3 mois en entreprise afin de mettre en pratique ce qui a été appris et de perfectionner le « savoir-faire » et « savoir-faire comportemental » indispensable au métier de technicien de laboratoire en chimie
Link to provided training	https://www.aptaskil.be/fr/catalogue-de- formations/technicien-de-laboratoire-en-chimie-avec- specialisation-en-techniques-chromatographiques-seneffe/
Domain of the training	Analytic techniques, chemistry
Value chain	R&D
Connected WP	WP9
Duration of the training	85 days
Equivalent credit points (ECTS) European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu) :	Not specified
Language of the training	French
EQF level Description of the eight EQF levels Europass	Not specified
Target group	Technician
Recommended pre-requisite	Screening interview
Type of training offer	Onsite (Seneffe, Belgium)
Type of provided training materials	Not specified
Fee-based training:	Yes – Aptaskil pays registered participants 2 euros/h, covers travel expenses and childcare expenses
Type of certificate	Not specified
Additional remarks	

TITLE	INFORMATION
Name of training provider	Aptaskil
Name of provided training	Technicien spécialisé en culture cellulaire avancée (Go4Biotech)
Short description of the training	Cette formation fait partie du projet Go4Biotech qui propose un programme complet de formation en culture cellulaire au profit de la santé. Ce sont des formations qualifiantes de 4mois pour demandeur d’emploi, en culture cellulaire avec

	des spécialisations à choisir dans les domaines R&D thérapie cellulaire (Helsci - ULB), virologie appliquée et industrie du vaccin (Centre Culture in Vivo), R&D production et immunologie (Forem Biotech Liège) et Production industrie Biopharmaceutique (aptaskil)
Link to provided training	https://www.aptaskil.be/fr/catalogue-de-formationen/technicien-specialise-en-culture-cellulaire-avancee-go4biotech-nivelles/
Domain of the training	Biopharma and biotechnology
Value chain	R&D
Connected WP	WP9
Duration of the training	80 days
Equivalent credit points (ECTS) European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu) :	Not specified
Language of the training	French
EQF level Description of the eight EQF levels Europass	Not specified
Target group	Technician
Recommended pre-requisite	Avoir des connaissances de base en instrumentation et en principe de mesure.
Type of training offer	Onsite (Seneffe, Belgium)
Type of provided training materials	Not specified
Fee-based training:	Yes – Cette formation est gratuite pour tous les travailleurs des CP 116 et 207. Il suffit d’inscrire votre/vos travailleur(s) via "S'inscrire via Co-valent". Pour les autres, inscriptions via "S'inscrire via aptaskil".
Type of certificate	Not specified
Additional remarks	

TITLE	INFORMATION
Name of training provider	<i>PlastiQ</i>
Name of provided training	<i>KUNSTSTOFTECHNOLOGIE ("Plastic technology")</i>
Short description of the training	<p><i>The training course looks at what are the challenges and opportunities of plastics recycling, what critical aspects should a company consider and what specifications are important when buying recycled material. More precisely, it will look at:</i></p> <ul style="list-style-type: none"> • <i>Legislation</i> • <i>The plastics market</i> • <i>Problems related to recycling</i> • <i>Definitions and standards</i> • <i>Recycling methods</i>

	<ul style="list-style-type: none"> • <i>Use of recycles</i> • <i>Aesthetic solutions</i> • <i>Design rules for the use of recycles</i> • <i>Recycling analysis and recognition methods</i>
Link to provided training	https://opleidingen.plastiq.be/trainings/circulaire-economie-inzetten-van-recyclaten-in-de-kunststofsector
Domain of the training	<i>Plastics</i>
Value chain	E.g. sales, raw materials, manufacturing,...
Connected WP	<i>WP 5</i>
Duration of the training	<i>3 hours</i>
Equivalent credit points (ECTS) European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu) :	<i>E.g. 3.5 ECs</i>
Language of the training	<i>Dutch</i>
EQF level Description of the eight EQF levels Europass	<i>EQF level 3 – 8</i>
Target group	<i>E.g. Technician, Researcher, ...</i>
Recommended pre-requisite	<i>No specific pre-requisite is mentioned</i>
Type of training offer	<i>Onsite – different locations for different sessions are available</i>
Type of provided training materials	<i>Presentations</i>
Fee-based training:	<i>Yes, € 242 while for employees of PC116/207 it is free of charge, through the structural support of Co-valent, PlastiQ</i>
Type of certificate	<i>E.g. Digital badge, printed certificate, ...</i>
Additional remarks	<i>Please add any relevant additional information which is not covered by previous points here, if applicable</i>

TITLE	INFORMATION
Name of training provider	Bio Tech Campus
Name of provided training	What's in it for me? AI in Life Science
Short description of the training	EU Biotech Campus is thrilled to introduce our latest training program focusing on AI in bioproduction, in collaboration with DNAlytics, Rombio (Genko) and UCLouvain. This unique opportunity will equip you with the tools to leverage AI technologies, enhancing bioproduction processes from upstream development to downstream processing for efficiency and scalability. With a focus on machine learning and combinatorial optimization, our program delves into the intricacies of AI-driven bioproduction. Gain insights into schedule optimization, operations management, predictive maintenance, and data-driven decision-making to

	revolutionize your operations. The program will also strongly relate to very practical business concerns, such as the need for relevant data models for manufacturing activities or contextualization of the data allowing for regulatory compliance (GMP, GMLP,...).
Link to provided training	https://biotechcampus.eu/training-programs/whats-in-it-for-me-ai-in-life-science/
Domain of the training	Biopharma
Value chain	Bioproduction and manufacturing
Connected WP	WP9
Duration of the training	40 hours
Equivalent credit points (ECTS) <u>European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu)</u> :	Not specified
Language of the training	English
EQF level <u>Description of the eight EQF levels Europass</u>	Not specified
Target group	Technician
Recommended pre-requisite	No
Type of training offer	Hybrid
Type of provided training materials	Not specified
Fee-based training:	No – Registration fee: 2.400€
Type of certificate	Not specified
Additional remarks	

TITLE	INFORMATION
Name of training provider	<i>EU Biotech Campus</i>
Name of provided training	<i>What's in it for me? Physical Science-based Digital Process Twins in Life Sciences</i>
Short description of the training	<p>The focus of this training is to explore the application of physical science-based digital process twin technologies based on mechanistic and hybrid models within the bioprocessing sector.</p> <p>The training will cover the key underpinning technologies.</p> <p>Attendees will have the opportunity to put theory into practice to cement the concepts and techniques covered during lectures via presentations, live demonstrations and guided hands-on exercises using modelling software accessed on virtual machines.</p> <p>The training will prepare participants to leverage digital process twins for solving complex biological manufacturing challenges.</p>

Link to provided training	https://biotechcampus.eu/whats-in-it-for-me-physical-science-based-digital-process-twins-in-life-sciences/
Domain of the training	Bioprocessing
Value chain	R&D, engineering design
Connected WP	
Duration of the training	Not specified
Equivalent credit points (ECTS) <u>European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu)</u> :	Not specified
Language of the training	English
EQF level <u>Description of the eight EQF levels Europass</u>	
Target group	
Recommended pre-requisite	Not specified
Type of training offer	Hybrid (Online – Biopark)
Type of provided training materials	Presentations, live demonstrations and guided hands-on exercises using modelling software accessed on virtual machines
Fee-based training:	No – Registration fee: 2.400 €
Type of certificate	Not specified
Additional remarks	

TITLE	INFORMATION
Name of training provider	<i>SBG Dresden mbH</i>
Name of provided training	<i>Basic course: Biotechnology I</i>
Short description of the training	<i>Microorganisms in particular can be cultivated in so-called bioreactors or fermenters. The knowledge and skills for controlling the conditions and optimizing them in the fermenter are a crucial prerequisite for the cultivated organisms to produce the desired substances or to produce them in higher concentrations and thus guarantee successful work in the laboratory. The seminar teaches you methods for analyzing fermentation products and their evaluation, as well as methods for immobilizing microorganisms and analyzing the metabolism. You will learn about the basic structure of bioreactors and the associated control and regulation technology as well as process control technology and how to use them.</i>
Link to provided training	https://www.sbg-dresden.de/bildungsangebote/weiterbildung/laborpraxis
Domain of the training	<i>Pharmacy</i>
Value chain	Manufacturing & Research, Laboratory Work
Connected WP	<i>WP9</i>
Duration of the training	<i>40 hours</i>

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Equivalent credit points (ECTS) Europe an Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu) :	<i>Not applicable</i>
Language of the training	<i>German (English possible)</i>
EQF level Description of the eight EQF levels Europass	<i>EQF level 4</i>
Target group	<i>The seminar is aimed at biologically working personnel, biology laboratory technicians and biologists.</i>
Recommended pre-requisite	<i>Previous knowledge in the field of microscopy and photometry. Safe handling of simple laboratory equipment for volume and mass determination and microscopes as well as working with microorganisms in sterile areas are prerequisites.</i>
Type of training offer	<i>Presence in the laboratory, with online segments</i>
Type of provided training materials	<i>Practical training on site</i>
Fee-based training:	<i>Yes</i>
Type of certificate	<i>Certificate of participation</i>
Additional remarks	<p><i>Contents</i></p> <ul style="list-style-type: none"> - <i>Production of biomass</i> - <i>Recording of a growth curve of baker's yeast</i> - <i>Cultivation in the fermenter</i> - <i>Quantitative analysis and microscopic examinations</i> - <i>Immobilization of microorganisms and investigations into metabolism</i> <p><i>Training can be adapted in terms of time and content: E.g. can be offered to trainees and apprentices in 3 weeks (120 hours). Example videos possible for weekly course (still to be produced)</i></p>
TITLE	INFORMATION
Name of training provider	<i>SBG Dresden mbH</i>
Name of provided training	<i>Chemical technician (initial VET)</i>

Short description of the training	<i>Chemical technicians have a key position in chemical operations and are in demand as qualified specialists. They are responsible for ensuring that production runs smoothly: they intervene in the event of disruptions. Chemical technicians operate state-of-the-art systems, control production processes and monitor chemical processes - for example in the manufacture of medicines, cosmetics or paints. One of their main tasks is to put systems into operation. For example, they have to heat up systems, generate a certain pressure or put a mechanical component into operation. When a system is running, chemical technicians monitor the system. This means they check important values such as pressure or temperature, refill raw materials if necessary, take samples, carry out measurements and react to disruptions.</i>
Link to provided training	https://www.sbg-dresden.de/bildungsangebote/berufsabschluss/naturwissenschaften/chemikant-in-ihk
Domain of the training	<i>Pharmacy</i>
Value chain	<i>Production of active pharmaceutical ingredients</i>
Connected WP	<i>WP9</i>
Duration of the training	<i>3.5 years</i>
Equivalent credit points (ECTS) Europe an Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu) :	<i>Not applicable</i>
Language of the training	<i>German (English possible)</i>
EQF level Description of the eight EQF levels Europass	<i>EQF level 4</i>
Target group	<i>The training is aimed at young people interested in technology and science and, in a shortened form, at employees from outside the profession (career changers, semi-skilled workers).</i>
Recommended pre-requisite	<i>Secondary school education</i>
Type of training offer	<i>Full-time training, retraining, preparation for the external examination (BBiG)</i>
Type of provided training materials	<i>Theoretical and practical training on site</i>

Fee-based training:	Yes
Type of certificate	<i>Exam at Chamber of Industry and Commerce (IHK)</i>
Additional remarks	<p><i>Contents</i></p> <p><i>Basic qualifications:</i></p> <ul style="list-style-type: none"> - <i>Introductory course</i> - <i>Computer science</i> - <i>Material processing and installation technology</i> - <i>Electrical and measurement technology</i> - <i>Basic laboratory course</i> - <i>Environmental protection - occupational safety</i> - <i>Installation technology and maintenance</i> - <i>Process engineering internship in the SBG technical center</i> - <i>Control and regulation technology</i> - <i>Thermal and mechanical processes in the SBG technical center</i> - <i>Process optimization - quality assurance in the SBG technical center</i> - <i>Exam preparation courses theory and practice</i> <p><i>Optional qualifications:</i></p> <ul style="list-style-type: none"> - <i>Production processes</i> - <i>Processing technology</i> - <i>Combining materials</i> - <i>Drying, crushing, extracting materials</i> - <i>Pipe system technology</i> - <i>Automation technology</i> - <i>Environmental technology</i> - <i>Laboratory technology</i> - <i>Quality management</i> - <i>Logistics, transport and storage</i> - <i>Applying production-related microbiological work techniques</i> - <i>Digitization and networked production</i> <p><i>The qualification is offered in accordance with the Vocational Training Act (BBlG). Depending on the needs of different target groups, content-related qualification sections can be separated out and methodologically and didactically adapted.</i></p>

TITLE	INFORMATION
Name of training provider	<i>SBG Dresden mbH</i>
Name of provided training	<i>Chromatographic methods – gas chromatography</i>
Short description of the training	<i>In our three-day course, you can familiarize yourself with the method of gas chromatography in theory and practice. You will independently optimize the separation for simple mixtures of substances on the existing gas chromatograph (split/split-less injector, non-polar column, FID). You will then use the comparison or spiking method to identify the components in the mixture. The quantification is carried out in the practical part using the four most important methods, with their advantages and</i>

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	<i>disadvantages being discussed. In parallel to the practical exercises, the most important injection and detection options will be presented theoretically and their areas of application clarified.</i>
Link to provided training	https://www.sbg-dresden.de/bildungsangebote/weiterbildung/laborpraxis
Domain of the training	<i>Pharmacy</i>
Value chain	<i>Manufacturing & Research, Laboratory Work</i>
Connected WP	<i>WP9</i>
Duration of the training	<i>24 hours</i>
Equivalent credit points (ECTS) <u>European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu)</u> :	<i>Not applicable</i>
Language of the training	<i>German (English possible)</i>
EQF level <u>Description of the eight EQF levels Europass</u>	<i>EQF level 4</i>
Target group	<i>The course is aimed at people who have little or no knowledge of GC or who want to refresh their knowledge.</i>
Recommended pre-requisite	<i>Confident use of simple laboratory equipment for volume and mass determination as well as basic chemical knowledge are prerequisites.</i>
Type of training offer	<i>Presence in the laboratory, with online segments</i>
Type of provided training materials	<i>Practical training on site</i>
Fee-based training:	<i>Yes</i>
Type of certificate	<i>Certificate of participation</i>
Additional remarks	<p><i>Contents</i></p> <ul style="list-style-type: none"> - <i>Structure of a gas chromatograph</i> - <i>Dosing techniques (split/splitless, on column, PTV, head-space)</i> - <i>Types of detectors (mass flow and concentration dependent)</i> - <i>The chromatogram, peak shapes</i> - <i>Optimization of separation in the GC</i> - <i>Qualitative and quantitative evaluation (comparison of external standard, internal standard, spiking method and 100% method)</i> <p><i>Training can be adapted in terms of time and content: E.g. can be offered to trainees and apprentices in 3 weeks (120 hours). Example videos possible for weekly course (still to be produced)</i></p>

TITLE	INFORMATION
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Name of training provider	<i>SBG Dresden mbH</i>
Name of provided training	<i>Industrial Master/Meister, specializing in chemistry (further VET)</i>
Short description of the training	<i>Technical and organizational skills are what characterize good managers. As an IHK-certified master, you are qualified for management positions in companies in the chemical or pharmaceutical industry. In this position, you take on demanding tasks: you act as an interface between skilled workers and management and are thus directly responsible for achieving the company's goals. In the SBG courses to become a certified industrial master, you will acquire comprehensive knowledge of business administration and communication, legally conscious action, employee management and working in teams in addition to the action-specific content of your specialist area.</i>
Link to provided training	https://www.sbg-dresden.de/bildungsangebote/meisterkurse
Domain of the training	<i>Pharmacy</i>
Value chain	<i>Production of active pharmaceutical ingredients</i>
Connected WP	<i>WP9</i>
Duration of the training	<i>2 years - 900 hours of distance learning and face-to-face learning 5 months full-time</i>
Equivalent credit points (ECTS) European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu) :	<i>Not applicable</i>
Language of the training	<i>German (English possible)</i>
EQF level Description of the eight EQF levels Europass	<i>EQF level 6</i>
Target group	<i>The training is aimed at specialists with technical and scientific training.</i>
Recommended pre-requisite	<i>Skilled worker training, primarily chemical technician</i>
Type of training offer	<i>Distance learning with on-site components</i>
Type of provided training materials	<i>Selected specialist literature and learning materials including self-study and external control tasks</i>
Fee-based training:	<i>Yes</i>
Type of certificate	<i>Exam at Chamber of Industry and Commerce (IHK)</i>
Additional remarks	<i>Contents 1. Cross-disciplinary basic qualifications - Acting with legal awareness - Business management - Application of information, communication and planning methods</i>

	<ul style="list-style-type: none"> - <i>Collaboration in the company</i> 2. <i>Action-specific qualifications</i> <i>Chemical production field</i> - <i>Process and plant engineering</i> - <i>Chemical processes and procedures</i> - <i>Process control technology</i> <i>Leadership, organization and communication field</i> - <i>Human resources management and development</i> - <i>Operational cost accounting</i> - <i>Responsible action in the company (Responsible Care)</i> - <i>Quality management</i> - <i>Information and communication</i> <i>Field of specialization (optional qualifications)</i> - <i>Synthesis planning</i> - <i>Automation and process control technology</i> - <i>Technology</i> - <i>Operational controlling</i> <p><i>Depending on the needs of different target groups, content-related qualification sections can be separated out and methodically and didactically adapted.</i></p>
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TITLE	INFORMATION
Name of training provider	<i>SBG Dresden mbH</i>
Name of provided training	<i>Basic course: Microbiology I</i>
Short description of the training	<i>In a microbiological laboratory, the safe and efficient mastery of basic techniques is an important prerequisite for the quality of work and research results. In the basic course, you will acquire or consolidate the necessary basic knowledge and practical skills for your successful daily work. You will expand your knowledge in the area of sterile work and in the application of various inoculation techniques and simple microscopy methods.</i>
Link to provided training	https://www.sbg-dresden.de/bildungsangebote/weiterbildung/laborpraxis
Domain of the training	<i>Pharmacy</i>
Value chain	<i>Manufacturing & Research, Laboratory Work</i>
Connected WP	<i>WP9</i>
Duration of the training	<i>40 hours</i>
Equivalent credit points (ECTS) <u>European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu)</u> :	<i>Not applicable</i>

Language of the training	<i>German (English possible)</i>
EQF level Description of the eight EQF levels Europass	<i>EQF level 4</i>
Target group	<i>The seminar is aimed at technical and scientific employees and persons returning to the profession.</i>
Recommended pre-requisite	<i>Little or no previous knowledge of microbiology</i>
Type of training offer	<i>Presence in the laboratory, with online segments</i>
Type of provided training materials	<i>Practical training on site</i>
Fee-based training:	<i>Yes</i>
Type of certificate	<i>Certificate of participation</i>
Additional remarks	<p><i>Contents</i></p> <ul style="list-style-type: none"> <i>- Implementation of the Biological Agents Ordinance</i> <i>- Methods of disinfection</i> <i>- Methods of sterilization</i> <i>- Production of culture media and their typical composition</i> <i>- Inoculation of culture media with solid and liquid samples</i> <i>- Morphological evaluation and differentiation</i> <i>- Simple methods of microscopy)</i> <p><i>Training can be adapted in terms of time and content: E.g. can be offered to trainees and apprentices in 3 weeks (120 hours).</i></p> <p><i>Example videos possible for weekly course (still to be produced)</i></p>

TITLE	INFORMATION
Name of training provider	<i>SBG Dresden mbH</i>
Name of provided training	<i>Basic course: Microbiology II</i>
Short description of the training	<i>For qualified work in a microbiology laboratory, the safe and efficient mastery of advanced basic techniques is an important prerequisite. You will practice the safe handling of microorganisms using methods for culturing non-pathogenic microorganisms in the aerobic and anaerobic range. In doing so, you will apply simple methods of microscopy, various inoculation techniques and staining methods in practice. In addition, you will determine resistance to antibiotics and carry out biochemical tests. The advanced course "Microbiology II" assumes the knowledge and skills from the basic course "Microbiology I".</i>
Link to provided training	https://www.sbg-dresden.de/bildungsangebote/weiterbildung/laborpraxis
Domain of the training	<i>Pharmacy</i>
Value chain	<i>Manufacturing & Research, Laboratory Work</i>
Connected WP	<i>WP9</i>

Duration of the training	<i>40 hours</i>
Equivalent credit points (ECTS) <u>European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu)</u> :	<i>Not applicable</i>
Language of the training	<i>German (English possible)</i>
EQF level <u>Description of the eight EQF levels Europass</u>	<i>EQF level 4</i>
Target group	<i>The seminar is aimed at technical and scientific employees and persons returning to the profession.</i>
Recommended pre-requisite	<i>Previous knowledge of microbiology</i>
Type of training offer	<i>Presence in the laboratory, with online segments</i>
Type of provided training materials	<i>Practical training on site</i>
Fee-based training:	<i>Yes</i>
Type of certificate	<i>Certificate of participation</i>
Additional remarks	<p><i>Contents</i></p> <ul style="list-style-type: none"> - <i>Implementation of the Biological Agents Ordinance</i> - <i>Cultivation of non-pathogenic microorganisms in the aerobic and anaerobic range</i> - <i>Application of various vaccination techniques, staining methods and microscopy techniques</i> - <i>Determination of resistance to antibiotics</i> - <i>Biochemical detection</i> <p><i>Training can be adapted in terms of time and content: E.g. can be offered to trainees and apprentices in 3 weeks (120 hours). Example videos possible for weekly course (still to be produced)</i></p>

TITLE	INFORMATION
Name of training provider	<i>SBG Dresden mbH</i>
Name of provided training	<i>Basic course: Molecular biology and genetic engineering work</i>
Short description of the training	<i>This course will give you in-depth knowledge and skills in innovative laboratory methods and techniques in molecular biology and genetic engineering. You will expand your basic knowledge and be able to clone DNA fragments and detect them using PCR. In the course you will also learn everything you need</i>

	<i>to know about independently organizing laboratory work processes and interpreting your experimental results.</i>
Link to provided training	https://www.sbg-dresden.de/bildungsangebote/weiterbildung/laborpraxis
Domain of the training	<i>Pharmacy</i>
Value chain	<i>Manufacturing & Research, Laboratory Work</i>
Connected WP	<i>WP9</i>
Duration of the training	<i>40 hours</i>
Equivalent credit points (ECTS) European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu) :	<i>Not applicable</i>
Language of the training	<i>German (English possible)</i>
EQF level Description of the eight EQF levels Europass	<i>EQF level 4</i>
Target group	<i>The seminar is aimed at technical and scientific employees and persons returning to the profession.</i>
Recommended pre-requisite	<i>Previous knowledge in the field of molecular biology and laboratory work.</i>
Type of training offer	<i>Presence in the laboratory, with online segments</i>
Type of provided training materials	<i>Practical training on site</i>
Fee-based training:	<i>Yes</i>
Type of certificate	<i>Certificate of participation</i>
Additional remarks	<p><i>Contents</i></p> <ul style="list-style-type: none"> - <i>Application of the Genetic Engineering Act</i> - <i>Isolation of nucleic acids</i> - <i>Modification of nucleic acids (restriction, ligation)</i> - <i>Conducting PCR</i> - <i>Applying methods for gene transfer (transformation)</i> <p><i>Training can be adapted in terms of time and content: E.g. can be offered to trainees and apprentices in 3 weeks (120 hours).</i></p> <p><i>Example videos possible for weekly course (still to be produced)</i></p>

TITLE	INFORMATION
Name of training provider	<i>SBG Dresden mbH</i>

Name of provided training	<i>Pharmaceutical Technician (initial VET)</i>
Short description of the training	<p><i>Pharmaceutical technicians are the specialists in the pharmaceutical industry and are responsible for ensuring that a specific recipe produces exactly the right medicine in a wide variety of forms (tablets, ointments, powders, solutions). They control the production facilities and ensure smooth processes with meticulous precision and the highest quality standards.</i></p> <p><i>To do this, they weigh, dose and mix substances that are effective even in the smallest quantities. They control and monitor the test facilities required to produce a medicine in accordance with hygiene regulations. The production facilities are also maintained and cleaned by pharmaceutical technicians.</i></p>
Link to provided training	https://www.sbg-dresden.de/bildungsangebote/berufsabschluss/naturwissenschaften/pharmakant-in-ihk
Domain of the training	<i>Pharmacy</i>
Value chain	Manufacturing of pharmaceutical products
Connected WP	WP9
Duration of the training	3.5 years
Equivalent credit points (ECTS) Europe an Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu) :	<i>Not applicable</i>
Language of the training	<i>German (English possible)</i>
EQF level Description of the eight EQF levels Europass	<i>EQF level 4</i>
Target group	<i>The training is aimed at young people interested in technology and science and, in a shortened form, at employees from outside the profession (career changers, semi-skilled workers).</i>
Recommended pre-requisite	<i>Secondary school education</i>
Type of training offer	<i>Full-time training, retraining, preparation for the external examination (BBiG)</i>
Type of provided	<i>Theoretical and practical training on site</i>

training materials	
Fee-based training:	<i>Yes</i>
Type of certificate	<i>Exam at Chamber of Industry and Commerce (IHK)</i>
Additional remarks	<p><i>Contents</i></p> <p><i>Basic qualifications:</i></p> <ul style="list-style-type: none"> - <i>Introductory course</i> - <i>Basic laboratory course</i> - <i>Advanced laboratory training</i> - <i>Information technology</i> - <i>MSR internship / PLC process control technology</i> - <i>Workshop training</i> - <i>Quality management</i> - <i>Galenic internship</i> - <i>Practical exam preparation course</i> <p><i>Optional qualifications:</i></p> <ul style="list-style-type: none"> - <i>Galenic for solid dosage forms</i> - <i>Instrumental analysis</i> - <i>Biotechnological active ingredient production</i> - <i>International competence</i> <p><i>The qualification is offered in accordance with the Vocational Training Act (BBiG). Depending on the needs of different target groups, content-related qualification sections can be separated out and methodologically and didactically adapted.</i></p>

TITLE	INFORMATION
Name of training provider	<i>AACR - Agriculture Association of the Czech Republic, Research Institute of Plant Production, Public Research Institution</i>
Name of provided training	Digital Agriculture for Enhancing Competitiveness and Supporting Biodiversity
Short description of the training	<p>The project titled "Digital Agriculture for Enhancing Competitiveness and Supporting Biodiversity" aims to transform agricultural practices through the adoption of digital technologies. It is designed to familiarize agricultural professionals with cutting-edge tools and methods in digital agriculture, emphasizing precision farming, robotics, and data management.</p> <p>Participants will delve into the utilization of advanced technologies, including sensor technology, remote sensing, and the Internet of Things (IoT), to achieve more efficient and sustainable farming. The training covers the entire agricultural production process, from seed to harvest, and extends to post-harvest storage techniques. It highlights how digital tools can help manage crop nutrition, protect plants, and enhance the</p>

	<p>overall ecosystem, supporting biodiversity within agricultural landscapes.</p> <p>Training materials provided include electronic presentations and data processing software, aimed at aiding participants in mastering the applications of digital agriculture. These tools will assist in evaluating soil and crop conditions, optimizing resource use, and implementing eco-friendly practices. The approach is hands-on, with practical demonstrations on data collection and analysis using state-of-the-art software and methodologies.</p> <p>This project is a response to the need for a sustainable agricultural sector capable of adapting to changing climate conditions and market demands. It seeks to increase farm productivity while reducing environmental impacts, thereby supporting the long-term viability of the agricultural industry and promoting biodiversity. By integrating digital technologies into everyday agricultural practices, the program aims to equip participants with the knowledge and skills necessary to lead the transformation towards high-tech, sustainable agriculture.</p>
Link to provided training	https://ivzops.cz/cz/ https://www.zscr.cz/
Domain of the training	<i>Fertilisers</i>
Value chain	<ol style="list-style-type: none"> 1. Precise Agriculture 2. Fertilizer Utilization Optimization 3. Smart Agriculture 4. Optimization of Nutrients 5. Big Data 6. Artificial Intelligence (AI)
Connected WP	7
Duration of the training	<i>In hours</i>
Equivalent credit points (ECTS) European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu) :	<i>Not known</i>
Language of the training	<i>Czech - so far – other language negotiable</i>
EQF level Description of the eight EQF levels Europass	<i>EQF level 3 – 8</i>
Target group	<ol style="list-style-type: none"> 1. Agricultural professionals - This likely refers to farmers, farm managers, and those directly involved in day-to-day agricultural operations. 2. Agronomists, hydrologists, foresters, and ecologists - These experts are mentioned in the context of needing to collaborate synergistically, suggesting they are also considered part of the target audience for the training.

Recommended pre-requisite	<i>Qualification enhancement</i>
Type of training offer	<i>Webinar - online</i>
Type of provided training materials	<ol style="list-style-type: none"> Electronic presentations - These will likely include slideshows or other digital materials that explain the principles and applications of digital agriculture, showcasing examples from precision farming and integrated production. Data processing programs - These tools will help participants handle and analyse the data relevant to digital agriculture. The programs will support the understanding and implementation of data-driven decision-making processes in agricultural practices.
Fee-based training:	<i>No</i>
Type of certificate	Not explicitly mentioned, the issuance of a certificate upon completion of the training. It focuses primarily on the educational content, materials provided, and expected outcomes for the participants, without specifying any formal certification process. If certification is a critical aspect of the training program, additional details might need to be obtained directly from the program organizers or included in other supplementary materials.
Additional remarks	This is a webinar proposed and piloted in 2023 by our partner (above) and is subject to adjustments and, eventually, language mutation

TITLE	INFORMATION
Name of training provider	<i>AACR - Agriculture Association of the Czech Republic, Research Institute of Plant Production, Public Research Institution</i>
Name of provided training	Fertilization and nutrient balancing in connection with new subsidy and other legislative requirements
Short description of the training	<p>The program titled "Fertilization and nutrient balancing in connection with new subsidy and other legislative requirements" offers a comprehensive series of educational events focused on sustainable agricultural practices. It aims to instruct agricultural entrepreneurs and employees on proper nutrient management, fertilization techniques, and the integration of these practices with current legislative and subsidy frameworks.</p> <p>Throughout the program, participants will engage in eleven six-hour sessions held across various regions, excluding a few. The curriculum is meticulously designed to impart knowledge on the storage, usage, and documentation of fertilizers and related substances, aligning with laws on fertilizers and water management.</p> <p>The instructional content will cover the principles of plant nutrition, the effective use of organic and mineral fertilizers, and strategies for reducing environmental impact, particularly</p>

	<p>nitrate pollution in water bodies. Practical demonstrations will include methods for calculating nutrient balances and planning fertilization according to soil and climatic conditions to optimize crop yields and minimize environmental risks. Additionally, innovative approaches from recent research projects conducted by the Research Institute of Plant Production will be shared, focusing on nutrient management and organic matter conservation.</p> <p>Training materials provided include a detailed commentary on current legislation and electronic presentations, ensuring that participants have access to up-to-date information and practical tools for immediate application. Participants will also learn to maintain required records such as storage cards and fertilization logs, which are essential for compliance with environmental standards and subsidy conditions.</p> <p>Upon successful completion of the training, participants will receive a certificate, recognizing their knowledge and readiness to implement environmentally responsible and legally compliant fertilization practices, thus contributing to the sustainability of agricultural operations and protection of the environment.</p>
Link to provided training	https://ivzops.cz/cz/ https://www.zscr.cz/
Domain of the training	<i>Fertilisers</i>
Value chain	Precise agriculture. Fertiliser utilisation optimisation
Connected WP	7
Duration of the training	<i>In hours</i>
Equivalent credit points (ECTS) <u>European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu)</u> :	<i>Not known</i>
Language of the training	<i>Czech - so far – other language negotiable</i>
EQF level <u>Description of the eight EQF levels Europass</u>	<i>EQF level 3 – 8</i>
Target group	<ol style="list-style-type: none"> 1. Education and Training 2. Nutrient Management 3. Legislative Compliance 4. Sustainable Practice Implementation 5. Documentation and Record Keeping 6. Innovation Sharing
Recommended pre-requisite	<i>Qualification enhancement</i>
Type of training offer	<i>Webinar - online</i>
Type of provided training materials	Training materials include a compendium with commented current legislation, presentations in electronic format, and a program for balancing nutrients and organic matter. Equipped

	with practical tools for planning fertilization and calculating nutrient balances, all discussed within the context of the training
Fee-based training:	<i>No</i>
Type of certificate	At the end of the training series, participants will receive a certificate, indicating that they have been informed and trained on the necessary practices and regulations
Additional remarks	This is a webinar proposed and piloted in 2023 by our partner (above) and is subject to adjustments and, eventually, language mutation

TITLE	INFORMATION
Name of training provider	<i>AACR - Agriculture Association of the Czech Republic, Research Institute of Plant Production, Public Research Institution</i>
Name of provided training	Perspectives on Plant Protection in Conventional Agriculture
Short description of the training	<p>The document titled "Perspectives on Plant Protection in Conventional Agriculture" addresses the evolving landscape of plant protection within conventional farming. It particularly focuses on the adaptation and implementation of Integrated Pest Management (IPM) strategies in response to significant shifts in agricultural practices, crop variety, and the intensification of farming observed since the 1990s.</p> <p>The document outlines the major changes influenced by the European Commission's policies, including the substantial reduction in pesticide usage mandated by the National Action Plan and the EC Regulation No. 1107/2009. These changes are critical as they aim to reduce the environmental footprint of conventional farming, particularly concerning the contamination of soil and water resources with herbicide residues.</p> <p>Key areas of focus include the innovation of disease, pest, and weed management strategies that comply with changing climatic conditions and the resistance of harmful organisms to pesticides. The project aims to acquaint agricultural professionals with both chemical and non-chemical, including biological, alternatives that enhance the effectiveness and sustainability of pest management systems under conventional farming protocols.</p> <p>This initiative is crucial for maintaining crop productivity and environmental health, emphasizing the importance of biodiversity and ecosystem services within agricultural landscapes. By integrating advanced methodologies and continuing education on new IPM practices, the project supports the ongoing evolution of conventional agriculture towards more sustainable and environmentally friendly practices.</p>
Link to provided training	https://ivzops.cz/cz/ https://www.zscr.cz/
Domain of the training	<i>Fertilisers</i>

Value chain	<ol style="list-style-type: none"> 1. Research and Development: 2. Regulatory Compliance: 3. Production: 4. Marketing and Distribution: 5. Application: 6. Monitoring and Adaptation: 7. Environmental and Health Impact Management:
Connected WP	7
Duration of the training	<i>In hours</i>
Equivalent credit points (ECTS) <u>European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu)</u> :	<i>Not known</i>
Language of the training	<i>Czech - so far – other language negotiable</i>
EQF level <u>Description of the eight EQF levels Europass</u>	<i>EQF level 3 – 8</i>
Target group	Agricultural Professionals: This group encompasses farmers, agronomists, and other practitioners in the agriculture sector who are directly involved in crop production and need effective plant protection strategies.
Recommended pre-requisite	<i>Qualification enhancement</i>
Type of training offer	<i>Webinar - online</i>
Type of provided training materials	<p>Certified methodologies: These are likely detailed guides or protocols on integrated pest management and other plant protection strategies, aligned with current standards and regulations.</p> <p>Book publications: Reference materials that provide in-depth information on various topics related to plant protection, likely including case studies, research findings, and best practices.</p>
Fee-based training:	<i>No</i>
Type of certificate	Not mentioned explicitly, only mentions that participants will have access to certified methodologies and possibly books on the subject, suggesting a focus on providing educational resources rather than formal certification. If certification details are important, it would be advisable to seek additional information directly from the organizers or associated institutions.
Additional remarks	This is a webinar proposed and piloted in 2023 by our partner (above) and is subject to adjustments and, eventually, language mutation

TITLE	INFORMATION
Name of training provider	<i>AACR - Agriculture Association of the Czech Republic, Research Institute of Plant Production, Public Research Institution</i>
Name of provided training	Sustainable management of nutrients and organic substances in connection with new subsidy requirements from 2023 and other legislative conditions
Short description of the training	<p>The project titled "Sustainable management of nutrients and organic substances in connection with new subsidy requirements from 2023 and other legislative conditions" is designed to educate agricultural professionals on integrating sustainable nutrient and organic material management practices with the latest legislative and subsidy conditions starting from 2023.</p> <p>The training aims to familiarize participants with the principles of proper plant nutrition and fertilization, focusing on efficiency and sustainability in light of evolving agricultural policies. Through 11 educational events, participants will receive comprehensive information about nutrient management, the importance of soil fertility, and the protection of water and air quality.</p> <p>Training materials provided to participants will include a compendium with annotated current legislation, electronic presentations, and programs for nutrient and organic matter balance. These resources are designed to enhance participants' understanding of the subject matter and facilitate the application of new knowledge in their daily agricultural practices.</p> <p>Additionally, the training will address practical issues such as the correct use of mineral, organic, and farm fertilizers, and other soil amendments like technologically processed waters and sediments. Methods for keeping mandatory records such as fertilizer storage cards and fertilization logs will be covered, alongside demonstrations of nutrient balance calculations and fertilization planning.</p> <p>Upon completion of the program, participants will receive a certificate confirming their training. This certification not only acknowledges their increased competency but also aids in compliance with the stringent requirements set forth by new subsidy conditions and environmental regulations, ensuring that participants can avoid potential penalties and subsidy cuts.</p>
Link to provided training	https://ivzops.cz/cz/ https://www.zscr.cz/
Domain of the training	<i>Fertilisers</i>
Value chain	<ol style="list-style-type: none"> 1. Education and Awareness. 2. Compliance with Regulations 3. Nutrient Management Implementation: 4. Record Keeping and Documentation 5. Practical Application and Demonstration 6. Resource Optimization

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Connected WP	7
Duration of the training	<i>In hours</i>
Equivalent credit points (ECTS) <u>European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu)</u> :	<i>Not known</i>
Language of the training	<i>Czech - so far – other language negotiable</i>
EQF level <u>Description of the eight EQF levels Europass</u>	<i>EQF level 3 – 8</i>
Target group	agricultural entrepreneurs and employees of agricultural enterprises. These participants are primarily those involved in the agricultural sector who will benefit from learning about sustainable nutrient management practices and compliance with new legislative and subsidy requirements.
Recommended pre-requisite	<i>Qualification enhancement</i>
Type of training offer	<i>Webinar - online</i>
Type of provided training materials	<ol style="list-style-type: none"> 1. Compendium with annotated current legislation - This material includes detailed commentary on the relevant legislative texts governing fertilizer use and environmental protection. 2. Electronic presentations - These are designed to facilitate understanding of complex topics and provide a visual aid during lectures and discussions. 3. Programs for nutrient and organic matter balance - These tools help participants calculate and manage the nutrient and organic content in soils effectively, which is crucial for sustainable agricultural practices.
Fee-based training:	<i>No</i>
Type of certificate	Participants will receive a certificate at the end of the training. This certificate serves as formal recognition of the knowledge and skills acquired regarding sustainable nutrient and organic substance management in agriculture. It also assists participants in meeting the compliance requirements set by new subsidy conditions and environmental regulations.
Additional remarks	This is a webinar proposed and piloted in 2023 by our partner (above) and is subject to adjustments and, eventually, language mutation

TITLE	INFORMATION
Name of training provider	<i>Maastricht University</i>
Name of provided training	<i>Bachelor of Circular Engineering</i>

Short description of the training	<i>The Circular Engineering program represents a comprehensive BSc degree in engineering with a specific emphasis on integrating engineering principles within the framework of a circular economy, as a means to facilitate sustainability and attain net-zero carbon emissions by 2050. Within the circular economy paradigm, emphasis is placed on reducing the consumption of raw materials, promoting resource reuse, and minimizing waste generation. Circular engineers assume pivotal roles in driving the transition toward a circular economy, leveraging their expertise to conceive, refine, and optimize products, processes, and services, thereby fostering enhanced circularity and contributing to the establishment of a sustainable societal and industrial landscape.</i>
Link to provided training	https://curriculum.maastrichtuniversity.nl/education/bachelor/circular-engineering/requirements
Domain of the training	<i>Plastics</i>
Value chain	<i>Raw materials, Manufacturing, Product design</i>
Connected WP	<i>WP4, WP 5 (Plastic)</i>
Duration of the training	<i>3 years, 2 semester per year, 3 periods per semester (8-8-4 week model), 40h per week</i> <ul style="list-style-type: none"> • <i>Period 1 and 2 consist of courses and skills training</i> • <i>Period 3 is devoted to a project where the knowledge and skills gained in previous periods are applied</i>
Equivalent credit points (ECTS) European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu) :	<i>180 ECTS</i>
Language of the training	<i>English</i>
EQF level Description of the eight EQF levels Europass	<i>EQF Level 6 (Bachelor)</i>
Target group	<i>Students wishing to obtain a BSc degree</i>
Recommended pre-requisite	<ul style="list-style-type: none"> • <i>High School diploma with sufficient mathematics, physics, and chemistry or biology.</i> • <i>Dutch high school diploma VWO Natuur en Techniek or VWO Natuur en Gezondheid + Wiskunde B + Natuurkunde.</i> • <i>High school diplomas equivalent to the Dutch diploma at accepted e.g.</i> • <i>International Baccalaureate Mathematics:</i> • <i>Analysis and Approaches (SL or HL),</i> • <i>Physics (SL or HL)</i> • <i>Chemistry and/or Biology (SL or HL)</i>

	<ul style="list-style-type: none"> • <i>German Zeugnis der allgemeinen Hochschulreife (Abitur)</i> • <i>Mathematics (Grundkurs up to and including the final year)</i> • <i>Physics (Grundkurs up to and including the final year)</i> • <i>Chemistry</i> • <i>and/or Biology (Grundkurs up to and including the final year)</i>
Type of training offer	<i>Onsite in Maastricht Onsite in technical Chemelot campus in Geleen</i>
Type of provided training materials	<i>In person lectures, workshops, problem-based learning tutorials, field trips, hands-on laboratory work</i>
Fee-based training:	<i>Yes</i>
Type of certificate	<i>Bachelor in Science degree (BSc)</i>
Additional remarks	<ul style="list-style-type: none"> • <i>Level of training: International</i> • <i>Fees: 2,314 Euro p.a. (23/24 fees EU students) ; 12000 Euro p.a. (23/24 fees non-EU)</i> • <i>Course learning outcomes (Attached in final page)</i>

TITLE	INFORMATION
Name of training provider	<i>Project InnoPro, co-funded by the Erasmus+ Programme of the European Union</i>
Name of provided training	<i>Management of Innovation Projects</i>
Short description of the training	<p><i>The course entitled Innovation Project Management (InnoPro) places emphasis on the linking methods of project management with technical-economic-managerial aspects of innovation projects. The InnoPro course focuses on practical aspects of project management and innovation issues which companies and institutions in the R&D sector often face. The main objective of the course is to develop relevant and high-quality competence related to the preparation and management of innovation projects with the use of innovative teaching methods, tools and innovative up to date content.</i></p> <p><i>This main objective will be supported by the following sub-objectives:</i></p> <ul style="list-style-type: none"> • <i>Incorporation of the latest methods and tools into the course.</i> • <i>Development of students' practical skills meeting the demand of the labour market and the R&D sector.</i> • <i>Support of teachers' and lecturers' competence in interactive training.</i> • <i>Enabling everyone to self-study and educate themselves.</i> • <i>Promotion of lifelong learning in order to increase employability.</i> • <i>Facilitation of modernisation and quality improvement in education and training through international cooperation and best practice exchange among universities and companies.</i>

Link to provided training	https://learn.skills-framework.eu/enrol/index.php?id=60
Domain of the training	<i>Project management in all sub-sectors</i>
Value chain	<i>Research and development, Innovation Processes,</i>
Connected WP	<i>WP 5 - 10</i>
Duration of the training	<i>15 weeks/90'</i>
Equivalent credit points (ECTS) European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu) :	<i>Is not provided, relevant to 3 ECTS</i>
Language of the training	<i>English, Spanish, Czech, Greek</i>
EQF level Description of the eight EQF levels Europass	<i>EQF level 6-7</i>
Target group	<i>Project Managers in R&D</i>
Recommended pre-requisite	<i>bachelor</i>
Type of training offer	<i>MOOC</i>
Type of provided training materials	<i>presentation slides, study guides, videos, forum for reflection and debate, self-assessment</i>
Fee-based training:	<i>Yes</i>
Type of certificate	<i>none</i>
Additional remarks	<i>The course is training-based (including exchange of good practices and workshops) and developed along with e-learning support (on-line documentation and e-learning sessions).</i>
TITLE	INFORMATION
Name of training provider	<i>University of Twente</i>
Name of provided training	<i>Rubber Technology Seminar</i>
Short description of the training	<i>Rubber technology is an intensive seminar given from experts from the University of Twente and from the industry. A tour of the Apollo-Vredestein factory is included in the programme. It is at the discretion of the hosting factory to decide upon admission of the individual persons. Additionally, a tour of the ETE laboratories is included. Case studies are used to discuss the application in the company environment. There are plenty of opportunities provided for discussion of theoretical and practical aspects with the lecturers. Also after the seminar the participants can obtain advice from the University of Twente.</i>

Link to provided training	https://www.utwente.nl/en/et/shortcourses/rubbertechnology/
Domain of the training	<i>rubber</i>
Value chain	<i>Full value chain</i>
Connected WP	<i>WP8</i>
Duration of the training	<i>40 h (5 days)</i>
Equivalent credit points (ECTS) <u>European Credit Transfer and Accumulation System (ECTS) European Education Area (europa.eu)</u> :	<i>1.5 ECTS</i>
Language of the training	<i>English</i>
EQF level <u>Description of the eight EQF levels Europass</u>	<i>EQF level 5 - 7</i>
Target group	<ul style="list-style-type: none"> • <i>young chemists and mechanical engineers</i> • <i>higher technical education graduates with work experience in the rubber industry</i> • <i>designers/constructors in companies that utilize rubber components or parts</i>
Recommended pre-requisite	<i>bachelor</i>
Type of training offer	<i>onsite</i>
Type of provided training materials	<i>presentation slides printed and digitally</i>
Fee-based training:	<i>Yes</i>
Type of certificate	<i>Printed certificate</i>
Additional remarks	