## 9 EBA Academy. Skill needs in the battery sector







**Raw Materials** 

handling

**Active Materials** 

**Battery Cells and Battery Packs** 

**Applications** 

Recycling/2nd life

E-mobility / ESS / Ind. applications

Academic leve	el (Ba & MSc)						
Electrochemistry	Electrochemistry	Electrochemistry	Packaging and Safety	EV types & technology	Smart buildings	Battery storage for	Material properties
Characterization	"Wet chemistry" and	and cell design	Battery Testing and	Charging infrastructure	Sustainable living	solar power	& life cycles
Naterial science	clean room processing	Electrochemistry	Monitoring	Vehicle to Grid	Energy management	Control and regulation	Rare resources
Material refinement &	Integrating processes	Process engineering	Data Science	Modelling & simulation	Power plants & VPP	of wind turbines	processing & recove
ourification processes	in the environment	Power & energy density	Mechanical engineering	Sustainable mobility	Smart grids, off grid	Coupling to fuel cells	Resource Chemistry
Environmental	Material synthesis	Energy conversion	Battery management	Business models	systems, micro grids	System optimisation	Separation processe
nanagement	and processing	efficiency	systems	Policy & Regulation	Business models	Cost calculation &	& technology
Chemical engineering	Inorganic chemistry	Performances factors	DC system design	Battery management	Policy & Regulation	life cycle analysis	Reuse & Recycling
Jnderstanding ecycling	and materials science	& process optimisation	Thermodynamic &	systems	Modelling & simulation	Policy & Regulation	Control & process
& remanufacturing	New and emerging	ନ୍ଧି <b>ଟ୍ୟାହା</b> ଏମନ୍ତ୍ର, simulation production	Kinetic properties		Software and electrical	Batteries in trains	legislation engineering Standardisati
	battery materials	<b>te୍ଡା<u>କ୍</u>ତମ୍ପୁନ୍</b> gies Battery	Software engineering		engineering	& aircrafts	Circular economy models
Vocational & I	Professional	Digitalisationg data science &				Modelling & simulation	Environmenta I
Material extraction,	Chemical processes	Physiisticsrocesses	Digital twins, modelling	Electric vehicle	Energy installations,	Robotics & automation	Materige ment Extraction,
processing & Sourcin efinement	Physical processes	(clean & dry room) Battery	& simulation Large scale	fundamentals,	(incl. photovoltaic) Electric vehicle	Receivables &	Refinement &
efinement 1	equipment design	manufacturing:	production Module &	opleid fron,	charging	grids Digital	Recycling
ogistic	Measurement &	Mixing, coating,	Pack assembly	diagnosis, and repair	Automation/control/	skills	Chemical/physic
3	control Chemical	drying	System integration	·	System integration	Battery	al processes
Measurement &	safety,	Measurement	Electromechanic	Battery systems	Power	handling/Safety	Logistics
control Chemical	waste handling	& quality	al	Electric motor	electronics	Regulation	Digital
safety,	Electrochemical	control	manufacturing	controllers Battery	Digital skills	Battery	skills
vaste handling	and battery	Chemical	Automation	handling/Safety	Battery	Testing and	Chemical/electrical
Environmen	system	safety, waste handling	Engineering Power	Troubleshooting	handling/Safety	Monitoring	safety Waste handlin
	understanding	· ·	electronics Battery	System integration Battery Testing	Battery Testing	System integration	Design for
nanageme	Simulation &	High speed	handling	battery lesting	and Monitoring	-,g	recycling/







## **Current portfolio**





