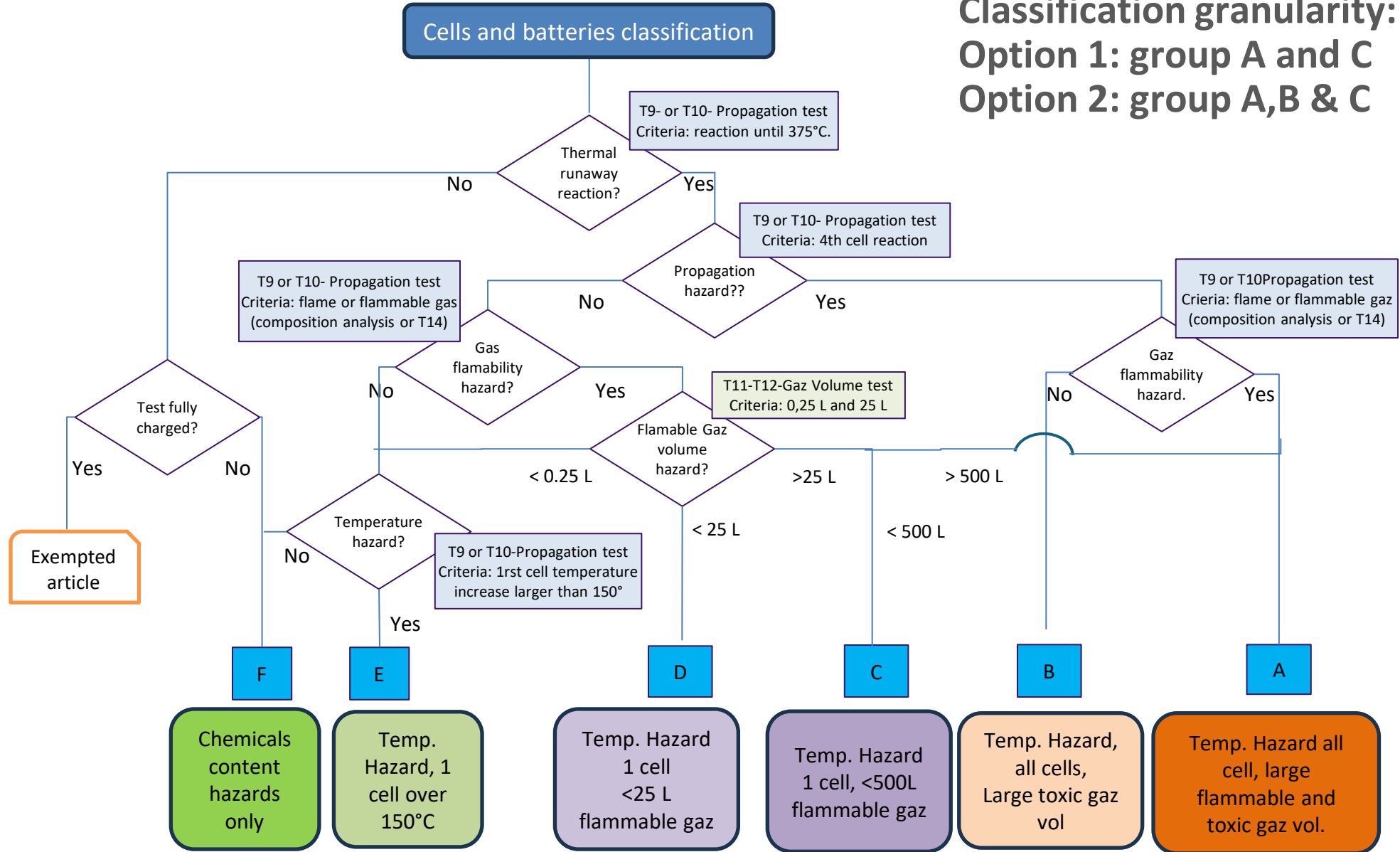
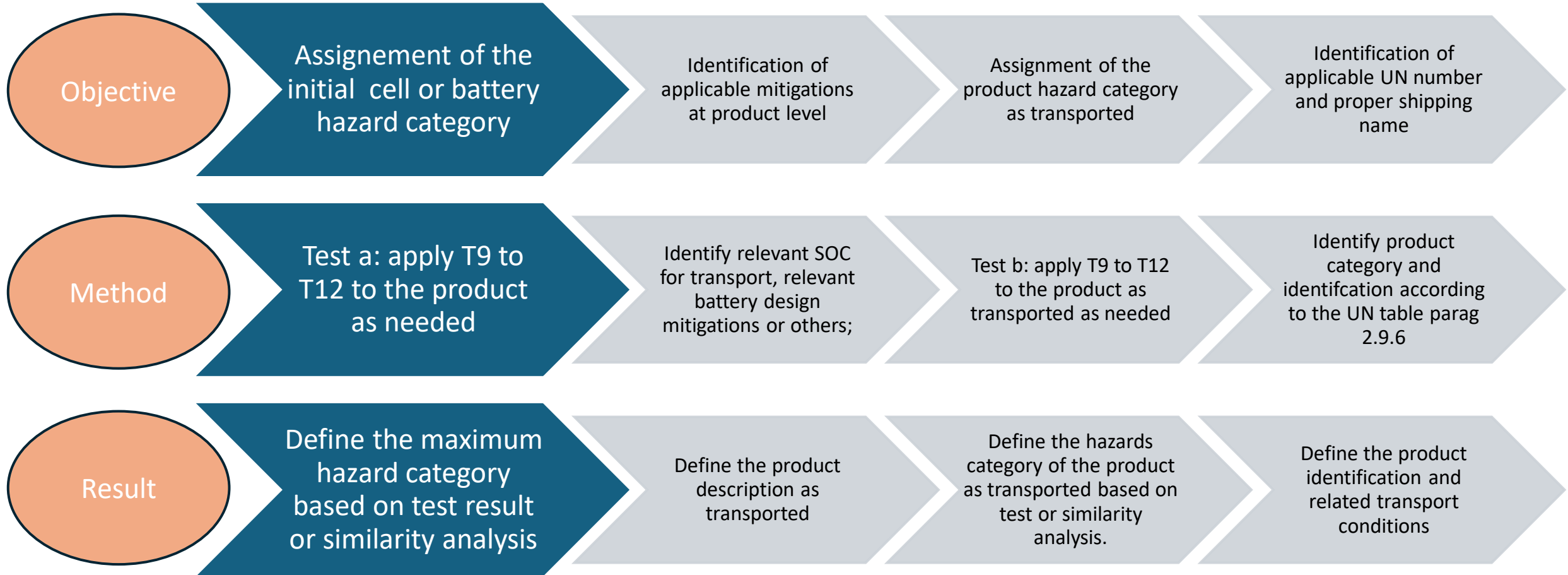


New classification tree



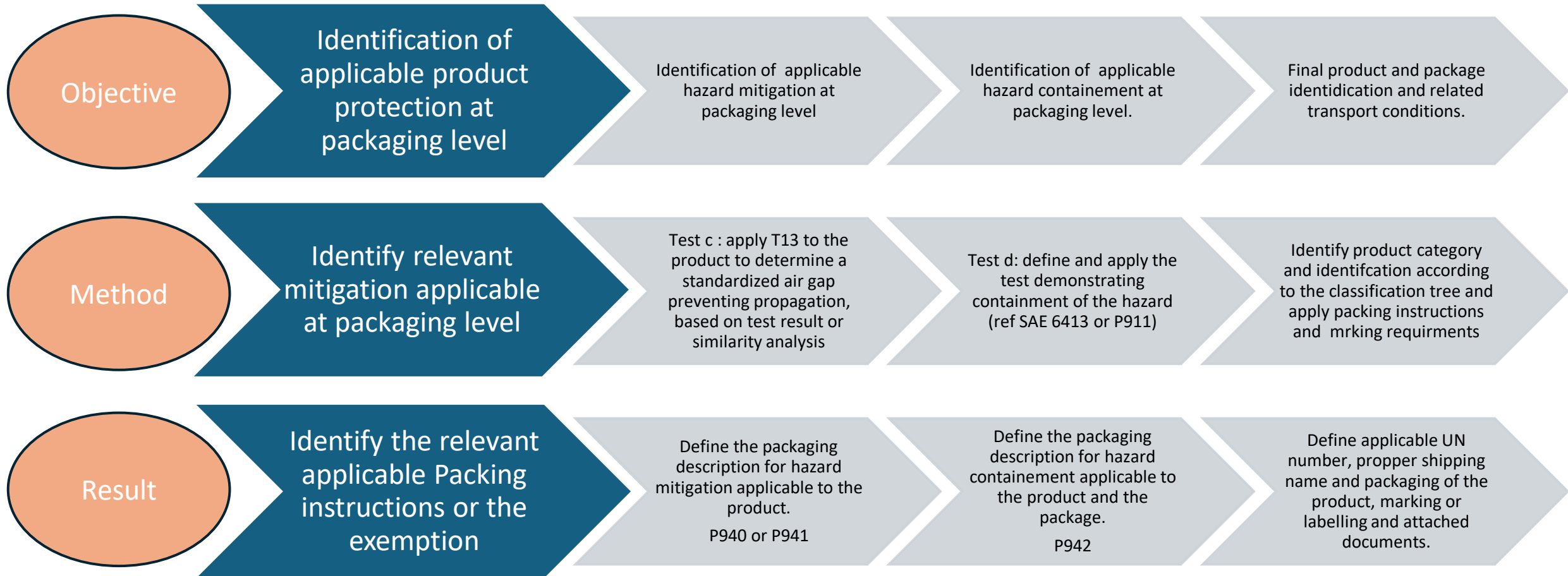
Classification granularity:
Option 1: group A and C
Option 2: group A,B & C

Process for the new classification of a cell or battery (1)



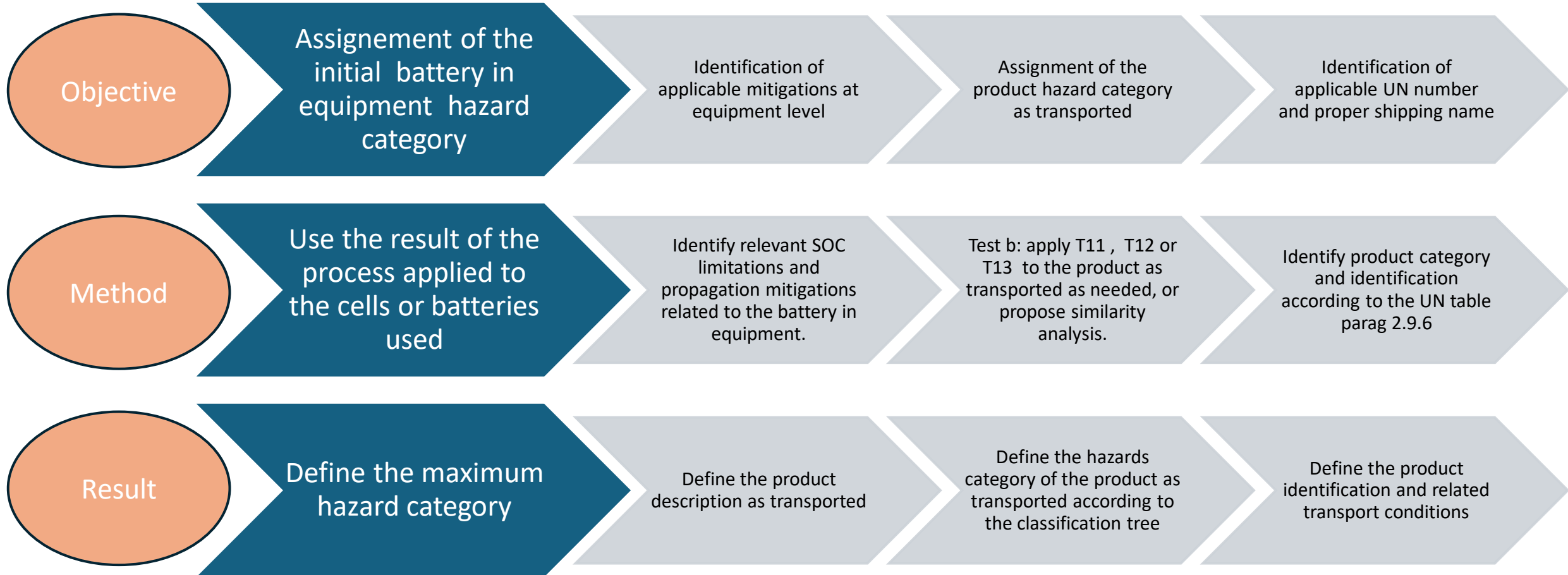
Note: the results of at least one of the two tests (Test a or Test b) must be available to use the classification

Process for the new classification of a cell or battery (2)



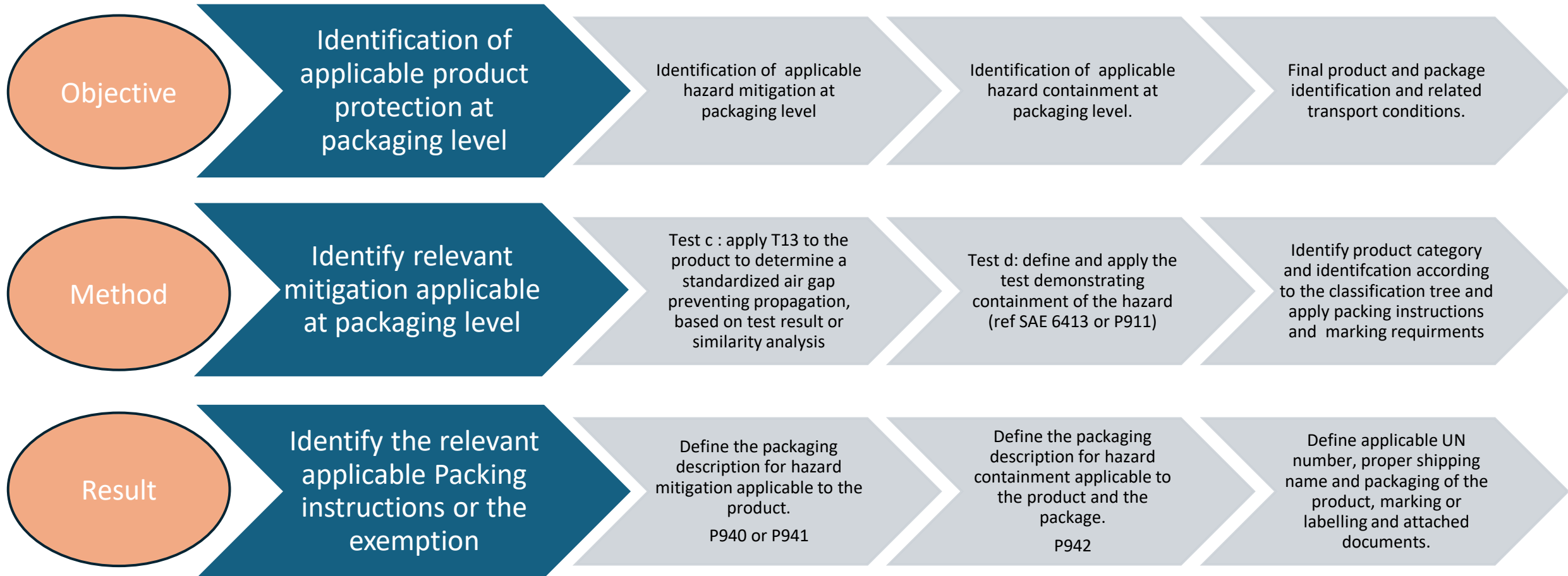
Note: according to the product properties, the manufacturer can decide what are the more appropriate safety conditions applicable at packaging level and only apply the relevant test method.

Process for the new classification of a battery in or with equipment (3)



Note: the results of at least one of the two tests (Test a or Test b) must be available to use the classification

Process for the new classification of a battery in or with equipment (4)



Note: according to the product properties, the manufacturer can decide what are the more appropriate safety conditions applicable at packaging level and only apply the relevant test method.

Process for the new classification : other mitigations

Objective

Identification of mitigations beyond packaging

Method

Relevant mitigation by quantity limitation and transport conditions (ventilation)

Result

Identify the relevant mitigations applicable to the used Packing instructions per transport mode

Note: according to the product properties, the manufacturer can decide what are the more appropriate safety conditions applicable at packaging level and only apply the relevant test method.

Maximum product Hazards characterization:	Product testing at 100% SOC and classification in Divisions	Chemical Content Hazards Only Division 9 F	No propagation , heat, Gas < 0.25 L Division 9 E	No propagation, heat, Flammable 0.25L< Gas < 25 L Division 9 D	No propagation heat, flammable 25L< Gas <500 L Division 9 C	Propagation or not HEAT, Non flam. Large Q. Gas Division 9 B	Propagation or not HEAT, Flammable Large Q. Gas Division 9 A
Hazard mitigation at product level	Main methods: Cell and battery SOC, Battery design	/	/ Battery: propagation prevention	Cell: SOC Battery: propagation prevention	Cell: SOC Battery: propagation prevention	Cell: SOC Battery: propagation prevention	Cell: SOC Battery: propagation prevention
Product Hazard as transported characterization, Identification	If needed, product test at SOC and battery test, Assignment of UN number and prop. shipping name	UN 3600 (BATTERY, SODIUM and LI ION) UN 3601 (LI METAL) Division 9 F	UN 3602 (BATTERY SODIUM and LI ION) UN 3603 (LI METAL) Division 9 E	UN 3604 (BATTERY SODIUM and LI ION) UN 3605 (LI METAL) Division 9 D	UN 3606 (BATTERY SODIUM and LI ION) UN 3607 (LI METAL) Division 9 C	UN 3606 (BATTERY SODIUM and LI ION) UN 3607 (LI METAL) Division 9 B	UN 3608 (BATTERY SODIUM and LI ION) UN 3609(LI METAL) Division 9 A
Product protection at packaging level	Packaging selection and packaging instructions	general provisions, drop test? or strong packaging or casing PI 940 No short circuit/no activation	PG II?? or Strong, rigid outer Packaging, or casing PI 940 No short circuit/no activation	PG II or Strong, rigid outer Packaging, or casing PI 941 No short circuit/no activation	PG II or Strong, rigid outer Packaging, or casing PI 941 No short circuit/no activation	PG II PI 941 No short circuit/no activation	PG II PI 941 No short circuit/no activation
Hazard mitigation at packaging level	Product Gap testing and Complementary Packaging Instructions	/	/	/	+ Propagation prevention by separations or others methods PI 942	+ Propagation prevention by separations or others methods PI 942	+ Propagation prevention by separations or others methods PI 942
Hazard containment at packaging level	Package/material testing if needed, Complementary Packaging Instructions				+ Non-combustible, non-conductive material PI 943	+ Non-combustible, non-conductive material PI 943	+ Non-combustible, non-conductive material PI 943