

Training and Test Specification for Training Provider Courses & Examinations of Lithium Battery Consignments

Fully Regulated Lithium Batteries

This test specification applies to stand-alone 'open' training programmes run by Training Providers **for fully regulated batteries**, i.e. those which must be accompanied by a dangerous goods transport document (shipper's declaration) where a dedicated Lithium Battery certificate/record of training is produced upon the successful completion of the test at the end of the training programme. The programme may be bolted on to an existing DG course or as a totally separate programme. Either way as an end test is required this test specification applies. Where a separate exam has been sat it is common practice to produce a certificate. Where a certificate is provided this must bear the Student Registration number and the full title of the course covering what was covered (e.g. all Lithium Batteries) should be shown on the certificate/record of training. It should also state that the training and assessment complies with the CAA test specification for Lithium Batteries. Where a separate examination is taken a student registration number must be allocated.

Bespoke Lithium Batteries training and assessment

For bespoke training programmes specifically geared to the requirements of the customer where, for example, they perhaps only ship one UN number of Lithium Battery an abridged test may be constructed using as much of the test specification as possible. Where only one UN number is shipped only 1x marking and labelling question may be used in Part B (rather than the 2 stipulated). The end certificate/record of training must detail what was covered on the programme (e.g. Lithium Battery – {UN 3481 only}) and bear a student registration number. Where abridged versions have been used please keep records of how and why the test deviates from the specification below. In this case the certificate/record of training must indicate that it is bespoke training and assessment for a particular client and mention that it falls outside of the CAA Lithium Battery Test specification.

Section II Lithium Batteries

For those shipping Section II Lithium Batteries, please refer to IATA DGR 1.6 and the IATA Lithium Battery Guidance Document for details of the areas that should be covered as a minimum. There is no requirement for a test following instruction on shipping Section II Lithium Batteries, but adequate instruction is required. Incorrect shipments present a flight safety hazard and can result in severe legal penalties on the shipper. Accordingly, IATA specifies that all employees involved in the process of preparing Section II lithium battery shipments must be taken through the procedure to ensure that they understand and can demonstrate the correct application of documented procedures for the packing, labelling, marking and documentation requirements, as applicable to their job function. A record must be maintained that identifies each applicable employee and the date(s) that this instruction was provided. Many Training Providers may wish to follow good practice training procedures and use tests/exams following training to confirm knowledge and understanding. Where tests/exams have been used it is also common practice to issue certificates following training. If a certificate is provided this should state that only Section II Lithium Batteries have been covered in the training and assessment. If Section II batteries have been included in a training course covering all Lithium Batteries this may be included on the certificate for the main Lithium Battery course.

Marking

Exam paper to contain Part A (Core) and Part B (Application). **Part A and B to be undertaken at the same time. Part A may be multiple choice or long answer (pass mark varies depending upon style chosen). Part B is the application in practical terms and may not be multiple choice.**

Pass mark to be 75% unless multiple choice questions are used in the core (A) in which case the pass mark is raised to 80% (where at least 75% of the questions in Part A are in the multiple choice format).

No specific operators course test specification has been developed as it is mostly shippers who will need this specialist knowledge. Operators who wish more detailed knowledge will need to attend the Lithium Battery course for shippers.

Total number of points available and the Pass mark for the exam paper needs to be given on the student's paper along with the name of the marker. Pass is required in part B (as per mainstream exam papers). Exam conditions as per mainstream exams.

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Table 2 Objectives for Each Area of a Training Programme

Italic & Underscored text indicates the areas of training in Table 1.5A

Area of Training	Responsibilities of Shippers/Packers and Cargo Agents for Lithium batteries <i>At the end of the session students should be able to:</i>	Include in Exam	Core (A)/or (B)	Nr of questions	Points for question	Level of difficulty(H/M/L)	Comments	Where in training programme?	Where in exam if required (i.e. got 'Yes' in Exam column)
1a <u>UK Law, Applicability and</u>	- Quote the title of the UK legislation on the transport of Lithium batteries by air - State who the regulations apply to and their responsibilities	No					Cover in training but not in exam		
	The training requirements for staff handling Lithium batteries by air	Yes	A	1	1	L			
1b <u>General Philosophy (Appendices)</u>	identify the general principles applicable and locate specific information from all chapters and appendices of the IATA DG regs.	Yes*	A	1	1	L	*May be omitted if already covered in DG exam		
2. Limitations									
2.1 Forbidden / damaged /defective Lithium batteries	Identify when lithium cells or batteries are forbidden	Yes	A	1	1	L	UN3536 Lithium Batteries installed in cargo transport unit		
2.2 Hidden dangerous goods (<u>recognition of undeclared dangerous goods</u>)	Identify the types of general cargo that may contain hidden Lithium batteries	Yes	A	1	1	L			
2.3 <u>Pax and crew</u>	Identify what DG pax and crew are permitted to take on an aircraft	Yes	A	1	1	L			

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2.4 Transport by post	Determine the restrictions that apply to the transport of Lithium batteries in air mail and the correct method of sending them.	Yes	A	1	1	L	The provisions for lithium batteries packed with equipment permitted domestically under UKCAA, MCA and DfT authorisations should be included in training for UK-based candidates and there then should be a question on this e.g. to verify that candidates understand that the UK provisions do not apply to international mail. Further details can be found on the Royal Mail website		
2.5 Variations	Apply appropriate state variations to Lithium battery consignments	Yes*	A/B	1	1	M	*May be omitted as a separate question if covered later in Part B		
	Apply appropriate operator variations to Lithium battery consignments	Yes*	A/B	1	1	M	*May be omitted as a separate question if covered later in Part B		
3. Classification									
3.1 Class	Define cells/batteries and other commonly used terms such as battery packs, battery assemblies and power banks.	Yes	A	1	1	L	Experience shows shippers do not understand the differences and they then can't properly ensure that there is evidence particularly that an assembly or battery pack is properly tested, etc		
	Assign Lithium batteries to the appropriate UN number and Proper shipping name.	Yes	A	1	1	L	Refers to 3.9.2.6. (and 4.2) Provide an extract of a test certificate and ask student to assign PSN & UN Nr		
	Identify the safety provisions that Lithium Batteries (UN3090, UN3091, UN 3480 and UN3481) must meet	Yes	A	1	1	M	Create question from 3.9.2.6.1 (a-g)		
4. Identification									