CHAPTERS 55, 56 AND 57 — EQUIPMENT, SAFETY SERVICES, BATTERIES

WHAT DOES CHAPTER 56 COVER?

Part 5 is everything you physically bring along and install. These three chapters are where that finishes, and they are almost pure lookup — know what lives where and you'll never hunt.

CHAPTER 55 — OTHER EQUIPMENT

SECTION	COVERS
551	**Low voltage generating sets** — including where the protective measure is SELV or PELV (both also appear in Part 4)
552	**Rotating machines** — anything with a motor, and generators
553	**Accessories** — plugs and socket outlets
554	**Specific current-using equipment** — water heaters with immersed heating elements, electrode water heaters and boilers, heating conductors
555	**Transformers**
557	**Auxiliary circuits** — the control circuit inside a motor circuit, e.g. the controller in a direct-on-line starter
559	**Luminaires and lighting installations**

> **Spotting auxiliary circuits on a drawing.**
> They're usually very thin conductors, and on a circuit diagram they're drawn as **thin lines against the thicker power lines**. If you see that contrast, the thin ones are the auxiliary circuits.

INSIDE 559 — LIGHTING DETAILS THAT GET ASKED

- **Track systems** are covered as a type of lighting installation.
- It tells you **how luminaires connect to the fixed wiring**. At each fixed lighting point **one of the accessories listed in Reg 559.5.1 shall** be used — for example a **ceiling rose to BS 67**, a luminaire supporting coupler, or a DCL. Note the "shall" — that's a requirement, not a recommendation.
- A luminaire **may be supplied from a socket-outlet circuit**: fit a **fused connection unit** on the ring or radial, drop the fuse rating down and run a lighting circuit from it. Ugly, but permitted.

CHAPTER 56 — SAFETY SERVICES

A **safety service** is something that has to keep working when things go wrong. The list in the chapter includes:

Fire alarm and smoke alarm systems	**CO** (carbon monoxide) alarms
Fire pumps	Emergency lighting
Essential medical systems	**UPS** — uninterruptible power supply
Lifts for the fire and rescue service	

§ **Switchgear and controlgear** for safety services **shall be clearly identified and grouped in locations accessible only to skilled or instructed persons** — **BA5** and **BA4** in Appendix 5 terms. Notice how often the external-influence codes keep reappearing; expect to be quizzed on Appendix 5.

Lifts.
Reg 110.2 excludes those aspects of lift installations covered by **BS EN 81**. Lifts *for the fire and rescue service* are, however, listed as a safety service.

§ **560.4.1** sets out the changeover times for safety-service supplies. Worth tabbing — the exam can ask for one, and it's a bare number in a chapter you'd otherwise skim past.

CHAPTER 57 — STATIONARY BATTERIES

Recent material, brought in by amendment — the change bars in the margin mark it.

- **Section 578** carries the **list of factors** to be taken into account when selecting the **battery type and capacity**. Classic "which of these is **not** a consideration" question — go to the list and find the answer that isn't on it.
- Protection by **automatic disconnection of supply shall be provided by an RCD**.
- "Stationary battery" means the sort of **home battery storage** you'd have going partly or fully off grid — typically paired with a **solar PV** system.

The exam loves lists.
Said outright, and worth repeating: **lists, tables, specific regulations and dates**. When a question asks which item is not included, the answer is nearly always sitting next to a bulleted list in the book.

- **551** · low voltage generating sets
- **552** · rotating machines
- **553** · accessories · plugs and socket outlets
- **554** · specific current-using equipment
- **555** · transformers
- **557** · auxiliary circuits
- **559.5.1** · accessories at a fixed lighting point (e.g. **BS 67** ceiling rose) ★

Chapter 56 · safety services ★

560.4.1 · changeover times

Chapter 57 · 578 · stationary batteries ★

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