



Ministry
of Defence

**JSP 886
DEFENCE LOGISTICS SUPPORT CHAIN MANUAL**

**VOLUME 7
SUPPORTABILITY ENGINEERING**

**PART 8.07
SUPPORT EQUIPMENT**

**THE MASTER VERSION OF JSP 886 IS PUBLISHED ON
THE DEFENCE INTRANET.**

**FOR TECHNICAL REASONS, EXTERNAL LINKS ON THIS
INTERNET VERSION HAVE BEEN REMOVED.**

VERSION RECORD		
Version Number	Version Date	Details of Change
1.0	26 Oct 12	Published version
1.1	02 Nov 12	Pg. 4: Sub para I: Product is defined as an equipment, service, system or system of systems. Deleted

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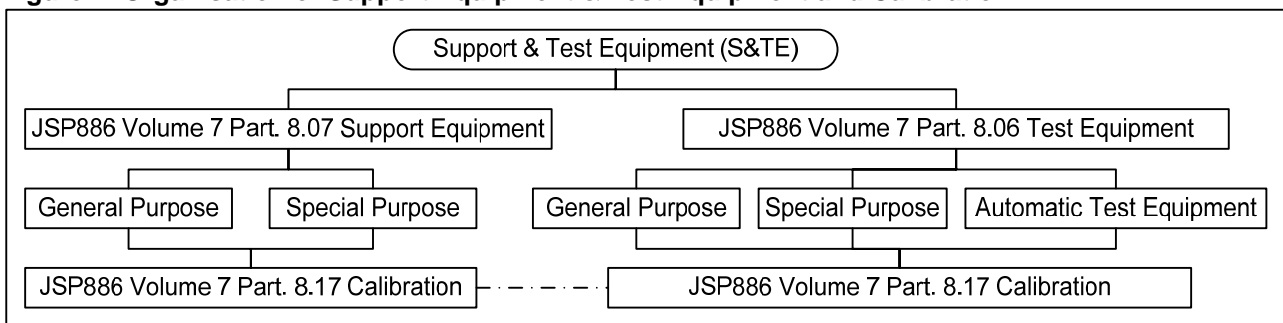
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CHAPTER 1: SUPPORT EQUIPMENT

CONTEXT

1. This part provides key points of policy and guidance, in respect of Support Equipment (SE) required for the effective Through Life Support (TLS) of equipment, in accordance with MOD Integrated Logistic Support (ILS) policy.
2. Within JSP 886 Vol 7 the policy requirements for Support and Test Equipment (S&TE) are covered in two parts, this part which relates to SE and Part 8.06 which relates to Test Equipment (TE) including Automatic Test Systems (ATS).

Figure 1: Organisation of Support Equipment & Test Equipment and Calibration



3. S&TE as defined in DEFSTAN 00-600 is all equipment (mobile or fixed) required to support the operation and maintenance of a product. SE is a part of the ILS element of S&TE and can be classed as:
 - a. Project Specific – provided to support a specific product.
 - b. Non Project Specific - provided to support a number of product types.
 - c. It can also be classed as:
 - (1) General – identical items used to support many product types.
 - (2) Special – an item used to support a specific product type.
4. It is MoD Policy to use General SE over Special SE where possible to provide a “Value for Money” solution and to fully utilise the inventory.
5. SE covers a vast range of items from simple tools to complex ISO containerised workshops. SE includes but is not limited to:
 - a. Hand Tools, including Tool Kits and Tool Sets.
 - b. Support Equipment for on-equipment maintenance and off-equipment maintenance.
 - c. Ground Support Equipment.
 - d. Aircraft Arrestor Systems.
 - e. Gaseous and Cryogenic Systems.
 - f. Workshop Tools and Equipment.

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- g. Warehouse Equipment.
- h. Special inspection equipment and depot maintenance plant equipment.
- i. Materiel Handling Equipment (MHE).
- j. Air Conditioners, Environmental Control Units, General Purpose Generators.
- k. Deployable Technical Support Solutions (DTSS).
- l. Hypobaric and Hyperbaric Chambers.
- m. Working at Height Equipment.
- n. Lifting Equipment.

Hand Tools

6. Hand Tools are categorised as either General or Special. There are approximately 25,000 General Hand Tools, Toolkits and Tool Sets, these are supported centrally by DE&S Military Equipment Tool Solutions DESLEGSG-DI-METS-OutputMgr@mod.uk.

Workshop Tools and Equipment

7. Workshop Tools and Equipment is divided into the following categories; Fabrication (welding, soldering, carpentry & metalworking), Workshop (cleaning, component cleaning, fluid collection), Garage (lifting equipment, lubrication, MoT testing, servicing equipment, Vehicle lifts and jacks), Warehousing (shackles, chains and tie-down kits), and Tools (pneumatic, electric and dehydrators), and these are supported centrally by DE&S Workshop Tools & Equipment DESLEGSG-DI-WTE-OutputMgr@mod.uk.

POLICY

8. It is MOD Policy that ILS will be applied to all product acquisition in accordance with JSP 886 Volume 7. SE is an integral part of ILS and this document details how Project Teams (PT)s shall identify and develop their SE solutions¹.

9. PTs are mandated to avoid the proliferation of SE in the inventory by minimizing the development of new SE and giving more attention to the use of existing government or commercial SE².

PRECEDENCE AND AUTHORITY

10. Ownership of Logistics Policy in support of the Logistics Process falls to the Assistant Chief of Defence Staff Logistics Operations (ACDS Log Ops) as Chief of Defence Materiel (CDM)'s Process Architect. This role is exercised through the Defence Logistics Policy Working Group (DLPWG) and the Defence Logistics Steering Group (DLSG) reporting up to the Defence Logistics Board (DLB).

¹ SE Policy is closely linked and complementary to Test Equipment Policy which is covered in JSP 886 Volume 7 Part 8.06

² PTs will adopt a centralised procurement and re-provisioning strategy to enable maximum use and interoperability of SE within the MOD, thus providing the most cost effective and efficient solution to meet Platform, Project or Equipment requirements.

11. PTs must assess compliance of developing support solutions Through Life, with key policies signposted by the SSE, underpinning the development of effective and coherent support solutions for all Category A-D Projects and Urgent Operational Requirements (UORs).

MANDATED REQUIREMENTS

12. Project/ILS Managers within PTs procuring SE are to ensure that all regulatory requirements are met, that the equipment fulfils the safety “duty of care”, and all environmental issues are addressed. These mandatory requirements include, but are not limited by, the following:

- a. Any SE bought after 1993 must be European Conformity CE Marked to conform to CE Directive 93/EEC.
- b. The SE meets all Statutory European and UK Health and Safety legislation for the intended environments in which they are to be used or operated.
- c. SE meets the requirements of all relevant Functional Safety Boards through compliance with the appropriate guidance (JSPs 375, 430, 454, 520, 553 and others).
- d. Where SE is of a nature, or is used in an environment that could compromise the commercial safety certifications, a Safety Case compliant with DEFSTAN 00-56 is required.
- e. For SE containing fluids at a pressure of more than 1.5 bar, the SE is to comply with the Pressure Equipment Directive (PED)³.
- f. For Lifting Equipment⁴, all Lifting Operation and Lifting Equipment Regulations and all other internal regulations⁵ are to be addressed within the equipment maintenance regime.
- g. SE must be assessed for environmental impact and approved for use in accordance with JSP 418.

KEY PRINCIPLES

13. PTs will ensure that a S&TE Plan⁶ is produced that is regularly reviewed, updated and continues to comply with MOD policy. The S&TE Plan is to be included in the Through Life Management Plan.

14. PTs procuring systems that require Special SE are responsible for the acquisition, funding and Through Life Support of that SE.

³ Pressure Equipment Directive (97/23/EC) was adopted by the European Parliament and the European Council in May 1997.

⁴ The generic term ‘Lifting Equipment’ is defined in The Lifting Operations and Lifting Equipment Regulations 1998 (LOLER 1998) as “Work equipment for lifting and lowering loads and includes its attachments used for anchoring, fixing or supporting it”. This definition embraces both lifting appliances and lifting gear.

⁵ JSP 375: MOD Health & Safety Handbook and AESP 2590-E-100-013: Management of Lifting and Recovery Equipment in the Land Environment, AP 119K-0001-2: Lifting Equipment and Accessories for Lifting, Royal Air Force Support Authority, General Orders, Special Instructions and Service Modifications.

⁶ S&TE Plan is provided by the contractor/ Original Engineering Manufacturer (OEM) which identifies the support equipment required, once they have carried out either an “economical Level of Repair Analysis (LORA)” or carried out a Maintenance Task Analysis (MTA) to derive tools and test equipment requirements.

15. When developing their S&TE plan PTs shall:
- a. In the first instance will seek assistance in developing/acquiring SE and show evidence of engagement with the appropriate gatekeeper - see JSP 886 Volume 7 Part 8.15: Gatekeeper Role in Utilisation of Common Defence Materiel (ILS Standardisation Process).
 - b. Ensure SE is optimised, and meets customer requirements on equipment availability.
 - c. Ensure that SE contracts include, as appropriate, calibration information, manuals, drawings, specifications and certification requirements.
 - d. Show evidence that the use and performance of SE complies with all relevant regulations relating to hazardous environment, fitness for purpose, safety under test etc.
 - e. Avoid the proliferation of SE in the inventory by minimizing the development of new SE and giving more attention to the use of existing government or commercial SE. This could be by:
 - (1) Identifying existing SE.
 - (2) Extending the application of existing SE.
 - (3) Modifying an existing item of SE.

ASSOCIATED STANDARDS AND GUIDANCE

16. The following documents are associated with SE:
- a. [JSP 375: MOD Health & Safety Handbook.](#)
 - b. [JSP 418: MOD Corporate Environmental Protection Manual.](#)
 - c. [JSP 509: The Management of Test Equipment.](#)
 - d. [JSP 886 Volume 7: Part 08.06: Test Equipment \(TE\).](#)
 - e. [JSP 886 Volume 7 Part 8.15: Gatekeeper Role in Utilisation of Common Defence Materiel \(ILS Standardisation Process\).](#)
 - f. [JSP 886 Volume 7 Part 08.17: Calibration.](#)
 - g. [DEFSTAN 00-56 Safety Management Requirements for Defence Systems.](#)
 - h. [DEFSTAN 00-600 Integrated Logistic Support Requirements.](#)
 - i. [AESP 2590-E-100-013: Management of Lifting and Recovery Equipment in the Land Environment.](#)
 - j. [AP 119K-0001-2: Lifting Equipment and Accessories for Lifting, Royal Air Force Support Authority, General Orders, Special Instructions and Service Modifications.](#)

OWNERSHIP AND POINTS OF CONTACT (POC)

17. The owner of the Part is Director Joint Support Chain (D JSC).
18. Head of Supply Chain Management (Hd SCM) is responsible for the management of JSC policy on behalf of D JSC.
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