

Technical Publications

DEFENCE AND INDUSTRY STANDARDS

We are highly experienced in a wide range of standards that we can work to, for example:

- ASD S1000D Services.
- ASD S2000M Material Management.
- JSP 886 Defence Logistics Support Chain Manual.
- JSP (D) 543 Defence Technical Documentation (superseding):
 - + DAvP70 Digital Air Publications.
 - + Def Stan 02-40 Royal Navy Books of Reference.
 - + JSP 180 Series.
- AESP 0100-Series – Army Equipment Support Publications System.
- Def Stan 00-56 Safety Management Requirements for Defence Systems.
- Def Stan 00-600 (previously 00-60) Integrated Logistics Support.
- MIL-STD-1388 – Integrated Logistics Support.
- MIL-STD-3001 – Standard Practice, Preparation of Digital Technical Information for Multi-Output Presentation of Technical Manuals.
- MIL-DTL-81927C – Manuals, Technical: Work Package Style, Format, and Common Technical Content Requirements; General Specification for (Work Package Concept).
- MIL-STD-38784 – Standard Practice for Manuals, Technical; General Style and Format Requirements.
- ISO 8000 – Quality Standards for Data and Information.
- ISO 22745 – Industrial Automation Systems and Integration.



Army Equipment Support Publications

Army Equipment Support Publications (AESPs) provide technical information concerning Army equipment required by planning staff, unit users/operators and technicians involved with operational use, maintenance or repair of the equipment.

The information contained within AESPs is divided into a standard set of categories which detail what information is contained within each category:

1 CATEGORY 1 – PLANNING AND SUPPORT INFORMATION

This category contains all the information required to manage the equipment and is split into two sub categories as follows:

Category 101 – Purpose and Planning: which details the capabilities of the equipment including information such as weights and dimensions, which is used when transporting the equipment.

Category 111 – Equipment Support Policy Directives (ESPD): which details the spares and maintenance policy for the equipment and where the equipment has been deployed.

These documents are normally used by equipment managers and logisticians located within a Headquarters or a MoD Delivery Team (DT).

2 CATEGORY 2 – OPERATING INFORMATION

This category contains information operators to ensure that the equipment is used correctly and safely.

The main document within this category is the category 201 – Operating information which details the safe operation of the equipment and any maintenance an operator may need to carry out at a basic level (known as level one maintenance).

In addition to the category 201 a category 211 – Aide Memoire is also normally supplied which is a précised version of the operating information including high level information which acts as an easy to use guide for a trained operator.

A category 221 – Training Information is also sometimes provided which contains and special training material, created in support of the equipment.

3 CATEGORY 3 – TECHNICAL DESCRIPTION

This category is normally used by the technicians who maintain the equipment.

The information within the document consists of a description of the design and functionality of the components of the system at a detailed level, including how various parts of the system interact with each other.

This information can be used for a number of purposes. It is primarily used for study and reference but can also be used to assist with fault diagnosis which is contained within category 5 (explained later).

4 CATEGORY 4 – INSTALLATION INSTRUCTIONS

This category contains the required information to install the equipment contained within the category 411 if an operator can install the equipment or a category 412 if a technician is required.

Additionally a category 422 or 421 – Preparation for Special Environments may be created which will detail any equipment changes that may be needed before putting the equipment into a different role, for example, if a vehicle that has been previously used in a desert is required to be deployed to the arctic.

5 CATEGORY 5 – MAINTENANCE INFORMATION AND INSTRUCTIONS

This category is primarily used if technician level maintenance is required for the equipment.

Fault finding information is contained within a category 512, this information guides the reader to diagnose the fault from there the technician can then refer to the category 522 – Repair Instructions which detail the remedial action to be taken.

Other categories that may be included are category 532 – Inspection Standards which detail how a measured inspection of the equipment can be carried out and category 542 – Calibration Standards which show trained technicians how to correctly calibrate equipment at the required intervals.

6 CATEGORY 6 – SCHEDULED MAINTENANCE

All preventive maintenance tasks are identified within a category 601 – Maintenance schedules which contain all the periodic maintenance required for the equipment.

This information is normally based on a time period but may also contain schedules relating to other periods such as mileage, hours run or rounds fired.

7 CATEGORY 7 – PARTS CATALOGUES AND COMPLETE EQUIPMENT SCHEDULES

This category contains all the information relating to spares for the equipment contained within a category 711 – Illustrated Parts Catalogue (IPC) which is used for ordering spares and also in conjunction with category 5 when repairing the equipment.

Normally a category 741 – Complete Equipment Schedule (CES) is also produced which contains details of the equipment supplied to be used for accounting purposes.

8 CATEGORY 8 – MODIFICATION AND GENERAL INSTRUCTIONS

This category contains all the information relating to any changes that have been made to the equipment in service either by the manufacturer or the MoD. These changes, including instructions on how to modify the equipment, are contained within these documents.

The main function of the documents is to store the information relating to the changes which is then subsumed into the main documentation when it is up issued.





AllanWebb

Air Publications

Air Publications (APs) provide technical information concerning aircraft and aircraft equipment required by planning staff, unit users/operators and technicians involved with operational use, maintenance or repair of the equipment.

The information contained within APs is divided into a standard set of Topics which dictate what information is contained within each publication.



There are a total of 16 Topics which relate to aircraft and 10 which relate to ground support equipment, the most commonly used are listed below:

1 TOPIC 1 – GENERAL AND TECHNICAL INFORMATION

This Topic contains all the information required to manage the equipment and also gives a technical description of the components of the system or equipment.

The information within the document consists of a description of the design and functionality of the components of the system at a detailed level, including how various parts of the system interact with each other.

This information can be used for a number of purposes but primarily is used for study and reference but can also be used to assist with fault diagnosis.

2 TOPIC 3 – PARTS CATALOGUES AND RELATED INFORMATION

This category contains all the information relating to spares for the equipment contained within an Illustrated Parts Catalogue (IPC) which is used for ordering spares and also in conjunction with Topic 4 & 5 when repairing the equipment.

3 TOPIC 4 AND 5 – MAINTENANCE SCHEDULES

All scheduled information is contained within maintenance schedules which contain all the periodic maintenance required for the equipment.

This information is normally based on a time period but may also contain schedules relating to other periods such as mileage, hours run or rounds fired.

In addition this Topic may also contain information relating to unscheduled maintenance i.e. repair procedures though these are normally contained within Topic 6 – Repair and reconditioning manuals.

4 TOPIC 10 – MAINTENANCE DIAGRAMS AND DATA

This Topic contains any MoD or supplier diagrams which relate to the equipment.

These would normally include any schematics, which could be electrical or mechanical, and any related information, such as cable schedules.



Books of Reference

Books of Reference (BRs) provide technical information for Royal Navy equipment required by planning staff, unit users/operators and technicians involved with operational use, maintenance or repair of the equipment.



The information contained within BRs is divided into a standard set of categories which detail what information is contained within each category:

1 CATEGORY 1 – PURPOSE AND PLANNING INFORMATION

This category contains all the information required to manage the equipment and is split into sub categories as follows:

1.1 Sub-category 1A – Summary of Data and List of References

The information contains equipment name and purpose, a description of the equipment, weight and dimensions, NATO Stock Number and Part Number information, and a list of associated references and related publications.

1.2 Sub-category 1B – Performance and Limitations

Describes the performance and limitations of the equipment the operational capability and that of any related software.

1.3 Sub-category 1C – Upkeep Policy

Upkeep policy information which details the actions which must be carried out to plan the upkeep of the equipment.

2 CATEGORY 2 – OPERATING INFORMATION

This category contains instructions for the operator in order to use the equipment correctly and safely.

The following information is contained within this category:

- Operational limitations.
- General description.
- Operating instructions.
- Operator checks.
- Diagnostic and repair information.
- Supplementary information.

Category 2 can be sub-divided into 2A, 2B, 2C, 2D and 2E dependent on the level of content and the type of equipment.

3 CATEGORY 3 – TECHNICAL DESCRIPTION

Contains the technical principles of design, operation, function and interrelation of the various parts of the equipment. Physical construction is also included when necessary. This category may be used for study and reference purposes. For repair purposes, it may be used with Category 5, described later, to assist in fault diagnosis.

3.1 Sub-category 3A – System Description

Includes positions and locations of equipment and assemblies and a complete functional description in a logical sequence.

3.2 Sub-category 3B – Equipment Description

Contains constructional details of the positions and locations of assemblies and sub-assemblies and types of enclosure. The functional description of the equipment gives details of equipment interfaces and functional diagrams.

3.3 Sub-category 3C – Program Description

Contains details of the system software to cover the functions identified in Cat 3A and or 3B.

4 CATEGORY 4 – INSTALLATION INSTRUCTIONS

This category contains the required information to install the equipment.

5 CATEGORY 5 – MAINTENANCE INFORMATION AND INSTRUCTIONS

This category is primarily used if technician level maintenance is required for the equipment.

Included in this category is failure diagnosis which is used to diagnose the fault from which the technician can then refer to the repair instructions which detail the remedial action to be taken.

Other categories that may be included are inspection standards which detail how a measured inspection of the equipment can be carried out and calibration standards which show trained technicians how to correctly calibrate equipment at the required intervals.

6 CATEGORY 6 – SCHEDULED MAINTENANCE

All scheduled information is contained within this category including all the periodic maintenance required for the equipment.

This information is normally based on a time period but may also contain schedules relating to other periods such as mileage, hours run or rounds fired.

7 CATEGORY 7 – PARTS CATALOGUES AND COMPLETE EQUIPMENT SCHEDULES

This category contains all the information relating to spares for the equipment contained within an Illustrated Parts Catalogue (IPC) which is used for ordering spares and also in conjunction with Category 5 when repairing the equipment.

8 CATEGORY 8 – MODIFICATION AND GENERAL INSTRUCTIONS

This category contains all the information relating to any changes that have been made to the equipment in service either by the manufacturer or the MoD. These changes including instructions on how to modify the equipment are contained within these documents.

The main purpose of the document is to store the information relating to the changes which is then subsumed into the main documentation when it is up issued.

THE NAVAL DOCUMENTATION THAT ALLAN WEBB PRODUCES ON A REGULAR BASIS INCLUDES:

- Books of Reference (BR).
- IPCs, including associated PS.
- SGLs.
- Job Information Cards (JICs) and Planned Maintenance Schedule (PMS).
- E lists have been excluded from this particular contract but can be produced where required.

THE STANDARDS THAT WE WORK TO INCLUDE:

- Def Stan 02-40 Part 1.
- Def Stan 02-40 Part 2.
- Def Stan 02-40 Part 3.
- Def Stan 02-40 Part 4.
- JSP 180 Series.
- Def Stan 00-600.
- ASD S2000M.
- SSP 45.
- CATSPEC 10.
- Def Stan 02-250.

Data Quality

Information and data quality are high on the agenda of many large and small organisations...

Exactly how do you know whether your data is of an acceptable quality or not? Once you have an idea of how healthy your data is, how do you ensure information is provided by your clients and customers to ensure the continued and improved quality of your data?

Data Quality and a need to reduce the errors generated by the manual handling of data are key objectives within most modern businesses. Allan Webb are experts in the delivery of Data Cleansing in accordance with ISO 8000 Pt 110 and the creation of ISO 22745 compliant database solutions. We offer a consultancy services for clients who wish to implement these standards in order to improve the quality of data used in daily business and modernise data exchange.

ISO 8000

ISO 8000 holds the answer to both those questions. Adopting an ISO 8000 Data Management Strategy drives good practice and transforms your data into something that can be accurately measured and efficiently improved. Prescribing that for data to be of quality, it must have a meta data property (which has an accurate definition) and a value which is measurable. These property value pairs form the cornerstone of high quality data.

ISO 22745

With 1 in 19 keystrokes on a keyboard being an error, studies have shown that data that starts as high quality may not stay that way when it is exchanged between entities. ISO 22745 is an international standard that facilitates automated transaction of data based on Open Technical Dictionaries. Once in ISO 22745 format, the translation of terminology within any classification system to another can be completed based on an XML Schema. This facilitates the automated exchange of Property Value Pairs between any systems using the same Open Technical Dictionary.

MASTER DATA MANAGEMENT

While ISO 8000 can be adopted as a stand-alone method of ensuring data quality, the augmentation of ISO 22745 enhances its benefits to include the eradication of manual handling errors and the time taken to transcribe data from one system to another. Master your data once, use it many times.

Allan Webb is among the world leaders in the delivery of Data Quality in accordance with ISO 8000 and ISO 22745. Services on offer from Allan Webb to help meet these standards:

- Measure the current quality of your data.
- Identify your complete data requirement.



AllanWebb

- Enhance the overall quality based on data requirement.
- Allan Webb's ISO 8000 DATA Quality Accreditation.
- Receive the Allan Webb ISO 8000 Certification as a quality data provider.
- Migration of your data to an ISO 22745 compliant format.

Adopting an ISO 8000 compliant strategy drives data quality by design not coincidence. ISO 22745 can reduce errors and poor quality as a result of the manual handling of data.

