



TECHSPEC (PTY) LTD

2012/213115/07

The power behind **Techspec** logistics

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SERVICES

- **About Techspec**
- **ILS Consultancy Services**
- **PLM Consultancy**
- **Training Design and Development**
- **Technical Document Authoring**
- **System Engineering**

Vision

Products that **perform** | *when they are required
how they should
every time
at a predictable cost
at an affordable cost
throughout their lifetime
until decommissioning*

1. The added value of Techspec

Techspec provides Business Solutions covering five distinct capabilities:

- ILS Consultancy Services,
- PLM Consultancy,
- Training Design and Development,
- Technical Document Authoring,
- System Engineering.

all underpinned by a common commitment to training and customer empowerment - with a single focus -delivering products that perform.

This unique offering can help customers to stay ahead of global competition by optimising product performance and exploiting e-business techniques.

The strength of Techspec lies in the breadth of capability, from the management of physical assets through to solutions for information systems, technology integration and logistics engineering. Techspec believes that information is a key corporate asset and seeks to utilise advanced international standards to exploit this most valuable -but often underutilised - resource, to deliver real business advantage.

Through-Life Support

2. ILS Consultancy Service

Techspec has an unrivalled background in military engineering logistics with a proven capability in delivering information and asset management solutions.

Techspec therefore, has the people and products to support the modern enterprise in seeking to optimise its own product and service life-cycles across the entire supply chain.

As a successful supplier of logistics consultancy services for over two decades, Techspec has built a capability that is the envy of many larger organisations. Recognised competencies within Integrated Logistics Support (ILS), Reliability Centred Maintenance (RCM), and Mathematical Modelling and Simulation are the foundation of a best in class portfolio of logistics proficiency.

Recent additions to this skill set include consultancy and Product Lifecycle Management (PLM) support for the Safety, Hazard Analysis and Risk Management elements of the product life-cycle.



3. PLM Consultancy

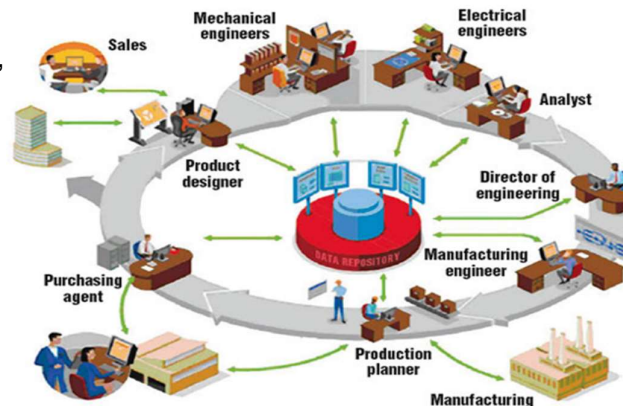
3.1 Capabilities

Today's enterprises must be able to respond quickly and effectively to changes in their marketplace. The magnitude of change affects all areas of the enterprise from office-based processes to the engineering, manufacturing and support of products.

Today's complex trading partner relationships require the controlled sharing of data ranging from collaborative product development across geographically dispersed organisations to the electronic sourcing of spare parts and interactive fault diagnosis through Product Lifecycle Management Systems (PLM).

PLM includes that a product of all the engineering, manufacturing and information of maintenance, digital media store, check. PLM starts from the creation of a product and finishes with re - transformation of product. At the same time this system can offer the products to different user profiles. The creation of the product determines largely what can be done with the product in the later life cycle phases.

- PLM Project Management,
- Data Migration,
- Aras Implementation,
- Aras Support,
- Aras Configuration.



The rapid manipulation of enterprise-wide information will enable the supply chain to be an agile organisation, able to better respond to changing circumstances quickly and cost effectively.

As an organisation committed to supporting these initiatives, Techspec has both the products and people to provide e-business solutions, web enabled and focussed on shared data environments to input data once and use it many times.

“ At least 40% of all businesses will die in the next 10 years... if they don't figure out how to change their entire company to accommodate new technologies. ”

— John Chambers
Former Executive Chairman and CEO,
Cisco Systems

4. Training Design and Development

4.1 Capabilities

Personnel and training is one of the most significant support elements in this value chain and plays a pivotal role in the safe operating and support of such systems or product.

Hence the reason that we also specialise in the scientific development processes of training development with the adult learner in mind.

The purpose of the training development programme, is to ensure, by means of a systematic approach, that the user receives an effective training system to train their own personnel. The training programme must be able to convey the necessary knowledge, skills and attitudes, in the most effective way, which in turn will give rise to a safe operating environment.

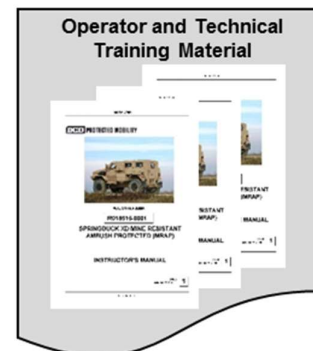
This will also ensure that the product or system is utilized, as designed for, with the necessary support throughout its life cycle. The development of the training development programme rest heavily on the process of content generation, and that is why the generation of training manuals and technical manuals are an integral part of the logistic engineering process.

- Classroom training,
- eLearning,
- Demonstration,
- Self-study materials.

4.2 Development Process

The instructional development process, which the model summarizes, requires instructional designers to:

- Concept Phase: Analyze and determine what instruction is needed.
- Definition Phase: Define and design instruction to meet the need.
- Development Phase: Develop instructional materials to support system requirements.
- Implement the instructional system.
- Evaluation is a central function that takes place in every phase.



5. Technical Manuals

5.1 Capabilities

Working with your existing content and subject matter experts, Techspec develops fully customized documentation for print, pdf, HTML that is highly usable to maintain.

5.2 Manuals, Books and Engineering Drawings

On-Line Product Manuals

At Techspec, we develop CD and web-based product manuals, handbooks and user manuals. We also web-enable existing manuals, which are in print form. Continuous maintenance of existing documents for correction, changes and addition of content is also undertaken.

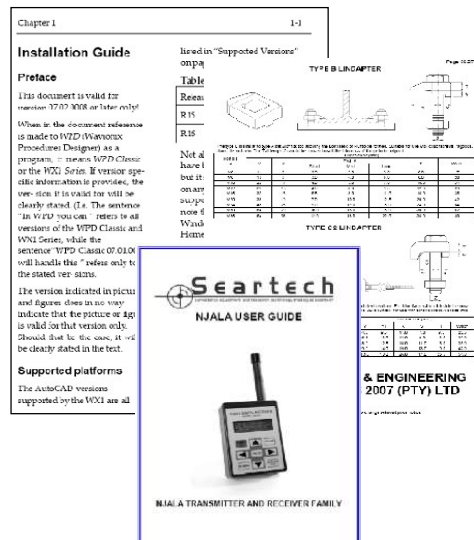
Release Documentation

Techspec develops new product release documentation and new version release documentation for both product or service offerings. We can constantly update the same, as per the requirement.

5.3 New Documentation

We design documents such as manuals, guides and web sites to be used as reference on the job in the workplace or by a customer with a new product, reduce time to find, comprehend and use information, reduce error, improve accuracy and clarity

- User and reference cards,
- Installation and maintenance manuals,
- Operator manuals,
- Training materials,
- Policy and procedure manuals,
- Quick reference cards,
- Online help,
- Compliance documentation,
- Catalogues.



6. System Engineering

6.1 Maintenance planning outsourcing services

- Definition of maintenance concepts,
- Product baseline management,
- Condition monitoring,
- Provisioning of a Computer Maintenance Management System (CMMS),
- Compilation of a Hardware Breakdown Structure (HBS),
- Development of servicing schedules and scheduling,
- Population of all data onto CMMS,
- Monthly reports,
- Maintenance planning outsourcing services – either on-site or remote via Internet.

6.2. Logistic Engineering Services;

- Failure Mode and Criticality Analysis (FMECA),
- Reliability, Availability, Maintainability (RAM) analysis,
- Configuration management,
- Life cycle costing,
- Maintenance task development and scheduling,
- Failure Report and Corrective Action System (FRACAS).

7. Contracts History

7.1 Projects have been involved with, namely:

PRODUCT	SERVICES PROVIDED	REFERENCES
Rooikat Mk 1 Armoured Car	Logistic Integration for Rooikat Mk 1 Armoured Car. Updating Training Packages and Technical Publications.	Armcor Programme Manager: Mr. Dirk Coetzee +27 12 428 3140
Olifant Mk 1	Training and Documentation Specifications	DI Logistic Manager: Hans van der Merwe +27 12 428-2909
Artillery Target Engagement System	Training and Publication Development	ADS Logistic Manger: George Georgiou +27 11 313 9281
ZT3-A2 Missile Products System	Training Specification Development	Kentron Logistic Manager: Andrew Meyer +27 12 671-1761
7,62 mm SS77	Training Specification	DI Programme Manager Deon Niewoudt +27 12 428 2909
Shongololo 4 & 5 Axle Transportation System	Training Specification	DI Logistic Manager: Hans van der Merwe +27 12 428-2909
76 mm Gun Drive System (ESD)	Develop Training Specification and Technical Training Course	ESD Logistic Manager Darrel Liebenberg +27 21 880 1150
Pilatus Astra PC-7 Mk II (Pilatus)	Project Manager for Training Package Development	Pilatus Tony Oderrmatt Switzerland
Corvette Programme	Training and Documentation Advisor	Armcor Programme Manager Dave Erasmus +27 12 428 3725
SA Navy Acquisition	Responsible for Development of SA Navy Training Specification RSA-MIL-SPEC-334	Armcor Programme Manager Dave Erasmus +27 12 428 3725
Corvette Program	National and International Training Assessment	Armcor Programme Manager Dave Erasmus +27 12 428 3725
TFMC	Developing a Distribution Facility (stores) Training Package	Internex Programme Manager Hans Guring +27 12 663 9411
HR Software	Developing URS for Human Resources System	Angolo Vaal Mining Hannes Brits +27 824510782

PRODUCT	SERVICES PROVIDED	REFERENCES
Don Piggot & Associates	Develop Global Sales strategy Training Package for Shell UK+US	Project Manager Koos Truter +27 12 355 5256
SA Army Acquisition	Update RSA-MIL-STD 128 and RSA-MIL-STD 122	DI Project Manager Marcelle van Tonder +27 12 428 2966
Pebble Bed Modular Reactor	Development of Web Based Training Package	PBMR Human Resources Dr. Jan van Tonder +27 12 677 9998
Olifant Mk 1 B	Stores Training	Alvis OMC Programme Manager Andre Venter +27 11 747 3337
Shongololo	Develop training packages and publications	DI Logistic Manager: Hans van der Merwe +27 12 428-2909
Aljaba Recovery Vehicle Variants	Project Manages the development of the training and publication specifications	Arm Scor Programme Manager Maarten Potgieter +27 12 428 3392
Olifant Mk 2	Project Manages the development of the training packages and publications	Alvis OMC Programme Manager Andre Venter +27 11 747 3337
Tactical Intelligence Systems	Project Manages the development of the training packages, publications and printing.	Arm Scor Programme Manager Louis van Niekerk +27 12 428 2700
New Generation Tactical Intelligence Systems	Project Manages the development of the training and publication requirements	Vertec Projects GT Noakes +27 12 428 2935
ZT 3 Evaluation	Evaluating Training and Publications Development	Kentron System Manager Andrew Meyer +27 12 671 1761
New Generation Armoured Personnel Carrier	Develop training and publication requirements	System Logistic Engineer Paul Bester +27 83 271 1801
Target Detection and Engagement System Training Olifant Mk 1B	Project Manages the development of the training packages and publications	Alvis OMC Project Manager Andre Venter +27 11 747 3337
20mm SAN Gun	Update 20 mm SAN Gun technical manuals.	Arm Scor Programme Manager Gert Hatting +27 12 428 3115
Flight Information Manuals AL 03/05 to AL 06/05	Printing of FIMs AL 03/05 to AL 06/05	SAAF Maj W. Kleynhans +27 12 312-2167

PRODUCT	SERVICES PROVIDED	REFERENCES
United Arab Emirates Armoured Patrol Vehicle	Project Manages the development of the respective training and publication packages for the UAE APV	BAE Landsystems Kabelo Maithufi +27 11 747-3345
Receiver & Transmitter	Develop User Guide	Seartech Director Rikus Viljoen +27 12 348-6522
Pilatus Astra PC-12/E (Pilatus)	Development of Training Packages for the PC-12/E for the USA.	Pilatus Tony Oderrmatt Switzerland +41 (41) 619 66 70
Ground Based Air Defence System	Development of learning programmes and publications	Denel Dynamics Werner Wasserman +27 11 652-5555
Artillery Target Engagement System (ATES II)	Training and Publication Development	ADS Logistic Manger: George Georgiou +27 12 313 9281
Tactical Intelligence Systems	Project Manages the development of the training packages, publications and printing.	Arm Scor Programme Manager Jaco Smith +27 12 428 2467
Bateleur	Updating of the complete suite of operating and technical manuals.	Rheinmetall Denel Munition Vincent Emery (+27021) 850 2443
Project Pantile (MOEMS I – Caterpillar Products)	To Militarise the Barloworld Equipment (OEM) training and technical manuals of the various Militarised Operational Earthmoving System (MOEMS).	Barloworld Equipment Lefa Mallane (+2711) 301 4211
Project Package	Develop training and documentation for the Mobile and Transportable Power Generation Products System.	VoltAmpere Lee Ferreira 083 25208171
Project Achilles	Develop training and documentation for the upgrade of the Military Image Interpretation and Exploitation Capability of the SAAF.	Denel ISM Werner Wasserman (+2712) 671 2691
Project Pantile (MOEMS II – Bell Products)	To Militarise the BELL Equipment (OEM) training and technical manuals of the various Militarised Operational Earthmoving System (MOEMS II).	Kynos. S.V Johan Botha (+2712) 942 8427

PRODUCT	SERVICES PROVIDED	REFERENCES
Springbuck Mine Resistant Ambush Protected (MRAP) range	DCD Protected Mobility requested Walog Training Development to develop a suite of training and technical manuals for the Springbuck Mine Resistant Ambush Protected (MRAP) range	DCD Protected Mobility Cornelius Grundling (+2711) 306 8305
Bread Crate Loader	Compile an operating manual for the crate loader.	Dale Automation Jacques Smith (+2711) 462 0044

7.2 Projects Techspec is currently involved with, namely:

PRODUCT	SERVICES PROVIDED	REFERENCES
CURRENT PROJECTS		
Etion Create	ILS Development for CheetahNAV	Etion Create Project Manager Hein Loest +27 12 678 9740
Cargo Handling Trailer	Training and Publication Development	Chieftain Trailers Nicholas Ryan +27 11 740-6013