
LEARNING SYSTEMS ANALYSIS PTY LTD

Improving human performance

Company Profile and Capability Statement

Key Services

**Analysis and Design of Training Support
Simulation System Training Needs Analysis
Instructional Design and Development
Training Program Evaluation**

Key Fields

**Aerospace
Defence Operations and Support
Public Road User Education and Licensing**

www.LSAnalysis.com.au

MELBOURNE:

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Company Profile

Learning Systems Analysis Pty Ltd (ABN 33 075 329 994) was established in 1996. The Company was formed to provide flexible and high quality services in the fields of training needs analysis, instructional design and instructional technology. The Company is based in Melbourne and has an office in Canberra.

Learning Systems Analysis applies systematic procedures to the analysis of training needs and the design, development and evaluation of training programs. These procedures are based on principles of Competency Based Training, Australian Defence policy and procedures, such as ADFP 7.0.2 – Defence Training Model and ATI 1-9 – Developing Training for New Capabilities, and US Military Standards, such as MIL-STD-1388 Logistic Support Analysis and MIL-STD-1379D Military Training Programs, as well as modern theories and principles of instructional design.

Learning Systems Analysis has provided services to:

- Major and minor Australian and New Zealand Defence capability acquisition projects
- Review of existing and evolving Australian Defence and Emergency Services training programs
- Online road user safety education and licensing programs.

Contact Information

Contact Phil Wallace at Learning Systems Analysis Pty Ltd for further information and to discuss your specific requirements:

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Our Experience

Projects conducted by Learning Systems Analysis Pty Ltd include:

- Instructional design services for development of a Victorian Motorcycle Pre-Learner curriculum
- Conduct of a Training Study for LAND 154 Phase 2 Counter IED capability
- Conduct of a Training Deficiency Study for Counter IED in the ADF
- Conduct of a Training Resource Requirements Review for ET trade training in the RAN
- Instructional design and supervision of video production for the Victorian Transport Accident Commission online resource "The Perfect Ride"
- Validation of Flight Deck Trainer training tasks for the RNZAF P-3K2 Orion aircraft
- Training Remediation Study for C-130J-30 aircrew and technical support personnel
- Analysis of training needs for JP 1770 Phase 1 Maritime Rapid Environmental Analysis
- Analysis of aircrew and support personnel training requirements for AIR 7000 Phase 2B P-8A Poseidon
- Analysis of training needs for the Army Air Ground System
- Analysis of training needs and development of training packages for Tactical UAV maintenance
- Study of training needs related to Battlespace Spectrum Management in the ADF
- Instructional design services for the VicRoads "VicRide: on-road coaching program"
- Analysis of training needs of users of Army Battle Simulation Centres
- Independent review of draft ADF procedures for simulation needs analysis
- Analysis, design and development of ADF Training Management Packages for the operation and support of Battlespace Communications Systems (Land) acquired through JP 2072
- Analysis of training needs for AIR 5438 Lead-In Fighter Upgrade
- Analysis and design of ADF Training Management Packages for the Defence Force School of Languages

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- Analysis of CH-47F Chinook aircrew training needs and evaluation of a transportable flight simulator capability
- Analysis of training needs in support of Land 144 Counter Mine Capabilities and evaluation of potential training system options
- Analysis of future ADF lead-in fighter training requirements, leading to the F/A-18F Super Hornet and F-35 Lightning, and evaluation of potential training system options
- Analysis of training needs in support of the ADF Battle Command Support System (BCSS) and evaluation of potential training system options
- Analysis of training needs in support of the ADF Deployed Local Area Network (DLAN) and evaluation of potential training system options
- Analysis of ADF rotary wing aircrew training requirements in the next decade, leading to conversion to operational types, and evaluation of potential training system options
- Analysis of ADF pilot training requirements in the next decade, leading to conversion to operational types, and evaluation of potential training system options
- Analysis of Australian-specific aircrew and support personnel training requirements in relation to the Joint Strike Fighter (JSF), including development of a Concept of Training for pilots
- Analysis of aircrew and support personnel training requirements in relation to the Seahawk Mid-Life Upgrade and Life-of-Type Extension Project, including definition and evaluation of potential training system options
- Analysis of the training needs of Defence Information Assurance Officers and development of an introductory Training Management Package
- Design of an online application to improve the hazard perception skills of novice motorcycle riders (TAC)
- Design and development of a coaching program for newly licensed motorcycle riders (VicRoads)
- Evaluation of novel training technologies for Australian Army heavy vehicle operators
- Analysis of training required by Defence personnel in a range of foreign languages
- Analysis of training needs for a new operational capability for Victoria Police
- Analysis of fire fighter training needs of the Melbourne Metropolitan Fire Brigade
- Instructional design services, scripting of motorcycle riding scenarios and supervision of video production for the Victorian Transport Accident Commission CD-ROM "Ride Smart"
- Design of a CD-ROM training product to develop hazard perception skills of motorcycle riders (TAC)

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- Evaluation of training methods and technologies for hazard perception training of motorcycle riders (VicRoads)
- Evaluation of flight and mission simulation training needs analysis processes for the Airborne Early Warning and Control Project
- Development of an 'Advanced Air Battle Management' Course for senior staff of RAAF Regional Operations Centres
- Development of courseware for a common Crew Resource Management 'bridging' course to be provided to all ADF aircrew
- Study of training issues related to simulation requirements and technologies for Project AIR 6000 – Future Air Combat Capability
- Analysis of functional requirements for a Hornet Distributed Mission Training System
- Analysis of training and simulation requirements, including Virtual Air Environment aspects, for RAAF Air Defence Command Teams
- Technical specifications for the production of digitized video for hazard perception test items in the Victorian Driver Licence test
- Simulation training and cost-benefit analysis for RAAF F-111C aircrew
- Simulation training and cost-benefit analysis for RAN Sea King helicopter aircrew
- Examination of functional requirements for the RAAF's Air Defence Ground Environment Computer Aided Trainer (ADGECAT)
- Instructional design services for research by Monash University into training needs of Army vehicle drivers using Night Vision Goggles
- Instructional design services, scripting of driving scenarios and supervision of video production for the Victorian Transport Accident Commission CD-ROM "Drive Smart"
- Development of design specifications for PC-based simulations for the Victorian Transport Accident Commission and Monash University Accident Research Centre
- Training task analysis for the Hornet Upgrade Project
- Definition of total training system requirements for the RAAF's Light Tactical Aircraft Project
- Training task analyses for the RAAF's AP-3C Orion and Light Tactical Aircraft Flight Simulator Projects.

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Products and Services

Capital Projects

Learning Systems Analysis Pty Ltd provides support to major and minor capital projects through:

- Requirement Definition, including Training Concept development and preparation of Tender documents and associated Data Item Descriptions and Statements of Work.
- Needs analyses and task analyses for weapon system and platform simulators.
- Evaluation of the capability of potential training technology solutions to satisfy defined training requirements using the training system modelling tool TANDEM DSS™.
- Tender Evaluation.
- Preparation of Review and Acceptance Plans for training products and services.
- Conduct of in-process reviews and acceptance testing.

Learning Systems Analysis Pty Ltd offers rigorous training needs analysis based on its own approach of Incremental Transfer Learning (ITL) and compliant with the Defence Training Model. Use of the ITL approach by clients is supported through:

- Documented procedures, techniques and tools.
- Training of client needs analysis staff.
- Consultancy support.
- PC-based training system modeling software.

Instructional Design and Development

Learning Systems Analysis Pty Ltd undertakes studies to meet client needs:

- Design and development of training packages compliant with the Defence Training Model and the requirements of individual Services.
- Assessments of the potential for use of specified instructional technologies (eg computer-based instruction), including instructional effectiveness and cost-effectiveness.
- Evaluations of the current use of specified instructional technologies.
- Project definition studies related to proposed uses of instructional technologies.

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Learning Systems Analysis Pty Ltd can provide instructional technology products to meet client needs:

- Project plans for the introduction, use and evaluation of instructional technologies.
- Policies and procedures for the introduction, use and evaluation of instructional technologies.
- Computer-based instruction courseware and supporting materials.

Training Services

Learning Systems Analysis Pty Ltd conducts general and tailored training in the following areas:

- Training requirement definition procedures.
- Training analysis and instructional design for simulation systems.
- Principles and procedures for instructional design.

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