

Transfinite Systems

Engineering Training Guide

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Training for the Future – an Investment

Your engineers are your greatest asset. They are the key to the future of your organization and deserve the best equipment and environment you can provide for them. Basic skills and technical expertise are a pre-requisite and can often be acquired on the job. However in many cases the learning curve is so steep that structure training is the best option.

Transfinite provides in-depth training in the methods of radio interference analysis and in the procedures of the ITU (covering both satellite notification and study group work). Our courses include, but are not restricted to, hands on training with the software products in our Visualyse range

Our intensive training courses, on your site or in the UK, can quickly get your staff to a level of competence that even the brightest self starter would take weeks to reach.

Transfinite Training is suitable for all levels of staff, whatever their background.

Our courses include:

- Course 101 - A Comprehensive Course in Coordination Methods and Procedures – this includes background theory and hands on training in our software.
- Course 201 - **Basic Introduction to Interference Modelling**. A 3 day tutorial type course aimed at graduates or experienced engineers new to the field of interference analysis.
- Course 202 – **GSO Satellite Coordination**.
- Course 301 - **A Visualyse Product Capability Overview**. A one day seminar type presentation aimed at programme managers and technical managers who need to know what the software can do.
- Course 302 – **How to ... for Visualyse Professional**
- Course 303 – **Training in Visualyse Advanced Use**

Problems Facing Programme Managers

- aggressive timescales
- tight budgets
- international meeting deadlines
- limited staff, limited resources
- difficulty finding and retaining suitable staff
- rapidly changing study requirements and goals

- Course 304 – **How to ... for Visualyse GSO**
- Course 305 – **How to ... for Visualyse Coordinate**
- Course 401 - **Tailored Training**. A less formal type of course completely tailored to your company's needs. Usually a set of hands on examples and tips, this course is aimed at engineers who have a specific job to complete or a definite area to study. This course is not necessarily for advanced users – you will learn all you need to know to get the job done.

Training is Continuous

Transfinite Training course do not run just for the few days you spend with the instructor. Prior to attending the course our instructor will try to find out as much as possible about your background and your needs. This is a great help in setting the course at the right level and in selecting exercises to use during the course.

This pre-screening is an essential part of the preparation and we are prepared to spend as much time as needed to get it right.

Once the actual training is over, you can contact Transfinite with questions at any time by email or by phone.

We are always happy to set-up refresher sessions if you feel these would be helpful – refresher sessions are made to order and tailored precisely to your needs.

Advantages of Training

- optimise limited resources
- adapt to changing goals
- increase productivity, freeing staff time to concentrate on problem domain
- improve staff morale and help retain staff

Quality is Assured

Course content is tried and tested, and has been developed systematically by a team including

- product developers,
- the instructor
- consultants.

Feedback from course attendees is one of our main development tools. This ensures that course content is relevant and up to date, and, for the software based courses that the latest features are used to help solve current problems.

All our instructors are experts in ITU methods and Procedures, Visualyse Software and in interference and communications analysis in general. All have many years experience in the subject area and are drawn from a small pool of Transfinite professional staff.

For tailored training, the instructor will spend several days working on examples prior to the course. Working in conjunction with the course attendees and their program manager he will assure that the course content is relevant and accurate.

Training for your Goals

At Transfinite Systems we know how difficult it to find and retain staff with the skills needed to get the job done. That's why we place a high value on training – both on the job training and structured formal training. On the job training is essential in most organisations because there is so much to learn and and this takes time.

The role of the formal training we provide is to develop the necessary basic skills needed to contribute quickly and effectively in a complex technical environment.

We understand the problems facing the technical manager and program manager within an organization such as yours. We know that training has to be targeted and specific to your goals. It must also be cost-effective and deliver clear benefits in terms of skills and staff.

Our first job at Transfinite Training is to identify your training need and to propose a solution for your team. We offer many types of training suited to all levels of expertise and all backgrounds, and it is important to make sure the training meets your business goals. We would like to discuss this in detail with you before we recommend a suitable course structure. However, the table below gives some indications of when our training courses may be suitable to your needs

Your Requirement	Our Solution	Transfinite Training Courses
You have new staff who will need broad knowledge of satellite coordination, terrestrial coordination, ITU-R processes and interference analysis	We have a 10 day training course in coordination procedures, ITU-R methods and interference analysis. We base the course on our own software but can also provide instruction in the ITU packages Space Cap and MSPACE if you require.	101 - Comprehensive Training
You have bought several copies of Visualyse for a team of engineers who will be working on different projects. You're not sure how Visualyse will be used on each project.	The Visualyse Overview Seminar will give you a very good idea of the capabilities of the software. The General Introduction to Visualyse course for all the engineers who will be using the software is essential. Tailored training on a per project basis – once the engineers are familiar with the software – will ensure that the maximum benefit is gained.	301 - A Visualyse Product Capability Overview.. 302 – How to ... for Visualyse Professional 401 Tailored Training –
Your company has hired a new recruit to work in interference analysis. Probably this person would benefit from being proficient in simulation and modelling, but presently they don't have the experience or skills	The Basic Introduction to Interference Modelling will introduce the recruit to modelling concepts and basic theory. The General Introduction to Visualyse and the Visualyse Advanced Features course will complement the theory and concepts with hands on training in use of the simulation	201 Basic Introduction to Interference Modelling 302 – How to ... for Visualyse Professional 303 – Hands on training in Visualyse Advanced Use
You have just bought some of our software and need to get your engineers going with it	Hands-on training courses are the best way to get started quickly. You may also need to provide some background training in the processes and procedures	Course 202 + 304 for satellite coordination Course 305 for Earth Station coordination
Your staff have used Visualyse in the past but not looked at it for some time. They now have some day to day need to use it now.	The General Introduction to Visualyse covers all the basic features of the software. As a refresher course it covers all aspects of Visualyse Professional and allows you to ask questions about features you would like to understand in more detail	302 – How to ... for Visualyse Professional
You have a specific job that you need to do, e.g. you company is working on the development of a new satellites system and the licensing process requires specific interference analysis/coordination. You don't have in depth experience with Visualyse.	A tailored training course is ideal in this situation. Normally a 3-5 day hands on course, concentrating on specific features and examples, this course will take staff of any level and train them to get the job done.	401 Tailored Training

Table 1 – some training options to match your requirements

Locations

Training can be provided at locations in the UK – Manchester or London.

In London, training may be our offices in Croydon or at a local hotel conference centre. Croydon is a very well connect location for the visitor to the UK. It is within an hour of both of London’s main airport and connect to the centre of London by a frequent 20 minute train journey that runs 24 hours.

Croydon itself has all the facilities needed for short stay on business trip – modern shopping in a central area, restaurants and hotels, excellent transport options. It is an historic centre of population – the Domesday Book records a Church a Mill and a population of 365 in 1086 CE.

In Manchester, training is based in a conference centre that may be close to the Airport or in the City Centre.

Manchester is a vibrant city with a diverse cultural history and tradition. A large student population and a compact city centre contribute to a friendly metropolitan atmosphere. Restaurants, theatres, pubs and clubs are all within easy walking distance in the City centre.

Manchester International Airport is a major international airport, serving around 18 million passengers per year and connecting to most countries directly. It is 20 minutes by train from the centre of the city.