



**Course  
Description:**

**The Transyt/12 Program – A Computer Workshop**

The Transyt program searches for a set of signal timings in a linked signal controlled network that minimises the cost of stops and delays for all traffic travelling through that network. The program allows you to model giveway junctions within the signal controlled network, but not linked giveway junctions in isolation of any signalled junctions.

Day 1 of the workshop commences with a brief 'reminder' of basic signal control methodology. This is followed by a 'program overview' that describes the input data requirements, and the way in which Transyt uses this data to model traffic travelling through the network and search for 'better' signal timings.

This is followed by a comprehensive session whereby all major Transyt input data, its measurement and purpose, are described in detail. Delegate understanding of this is tested through numerous class exercises. Delegates then get to enter this data for themselves onto pcs pre-loaded with the Transyt/12 software. Tutor assistance is available on an individual basis during the practical sessions.

As confidence using the software grows, delegates are then instructed how to model stand-alone and integral pedestrian facilities incorporated within the network and are set two network problems which test their understanding of this. Day 1 ends with a detailed examination of the output data, in particular, explanation of all the data provided in the Final Link prediction table.

Day 2 provides instruction in all the more advanced features of the Transyt software, i.e. interpretation of Graphs (Cyclic Profiles and Vega diagrams), their use to validate Transyt Models, how to model flares and 2 to 1 exit merges, how to model pure giveway junctions and opposed right-turners within signal controlled junctions, introduction to shared stoptines and how you use them to model bus priority, and how to request individual route travel times through the Transyt network. Once again, all Day 2 material is taught through a combination of presentations, demos, class and pc exercises.

The following topics are covered:-

- An overview of the TRANSYT program
- Input Data requirements with Class Exercises
- How to use CYOP to select network Cycle Time
- Modelling pedestrian facilities
- Detailed interpretation of the Transyt output
- Interpretation of the Transyt Graphs
- Transyt Model Validation
- Modelling Giveway junctions
- Modelling Opposed Right-turners
- Modelling Flares and Funnels
- Modelling Shared Stoptines and Bus Priority
- Requesting Route Journey Times
- Using TranED to enter Transyt input data, run and interpret Transyt output – a brief demonstration

<p><b>Who should attend:</b></p>	<p>The Course is primarily aimed at persons who either have to prepare, or have to check traffic impact submissions involving networks of linked traffic signal schemes. The course provides a 2-day 'hands-on' workshop teaching the use, interpretation and application of the TRL Transyt/12 program to model linked signal networks.</p> <p><b>Anyone who wishes to use the JCT TranEd program to model linked signal networks need to consider attendance at a Transyt/12 course as a necessary prior requirement.</b> (<i>TranEd undoubtedly makes Transyt easier and quicker to use. This JCT front and back end graphics pack for Transyt writes to and from the Transyt program all the time you are using it. However, please note that all TranEd users first require a full understanding of the Tansyt program to confidently and competently use TranEd when modelling signalled networks</i>).</p>
<p><b>Course Tutor</b></p>	<p>The Course Tutor will be Barbara Chard of Barbara Chard Consultancy Limited ( Lincoln, UK) who has extensive practical experience in the traffic design and control field of work and who has been teaching engineers to understand and apply Transyt to modern day design for over 23 years. In addition to running numerous In-House Transyt courses under the BCC banner, Barbara, also prepares and presents the Transyt material at all the JCT Transyt public courses held periodically throughout the UK.</p>
<p><b>Prior Requirements:</b></p>	<p>Attendees require a prior understanding of basic traffic signal control methodology. Prior attendance at the JCT Introduction to Traffic Signals Course is considered ideal.</p>
<p><b>Aim:</b></p>	<p>The course is aimed at those whose work involves co-ordination of traffic signals and would like to learn the methodology behind TRANSYT as a tool for modelling and evaluating signalled networks. No prior knowledge of TRANSYT is required. Prior understanding of signal control methodology is largely assumed.</p>
<p><b>Methodology:</b></p>	<p>Approach adopted includes a combination of:</p> <ul style="list-style-type: none"> <li>• Powerpoint Presentations</li> <li>• Class Exercises and PC demos</li> <li>• 'Hands-On' experience on provided examples using PCs</li> </ul> <p>The Programs <b>TRANSYT/12 LINSAT and TranEd</b> are used during this course.</p> <p>A comprehensive workshop manual including answers to all the class exercises together with a CD providing various associated utilities, papers, teaching aids and copies of all the workshop Transyt input and output data files for the workshop examples, is provided.</p>
<p><b>Number of Places:</b> <b>Duration:</b> <b>Location:</b></p>	<p>Up to 14 2-Days Your Offices</p>
<p><b>In-House Charge:</b></p>	<p>Telephone Barbara Chard on 01522 548271 or email <a href="mailto:courses@bcctrffic.co.uk">courses@bcctrffic.co.uk</a> and request a Quotation and course delivery dates</p>