



# I.C.T 1900 SERIES

## APPRECIATION AND UTILIZATION COURSES

The economic effectiveness of an advanced computing system is as much dependent upon a full appreciation of its philosophy and the optimum utilization of its potentialities as on the efficiency of the device itself. Jointly with the 1900 series, I.C.T provides a range of courses based upon these factors.

Separate courses are designed for company directors and higher executives or those who may be concerned with the manipulation of the system. All aspects of the 1900 series and its application are covered, and those courses devoted to the multi-programming versions include reference to the important functions of the Executive program system.

### APPRECIATION

There are three courses on this branch of the subject and they are designed for company directors and higher executives. The object is to impart sufficient information about the potentialities of the 1900 in its various forms to enable an accurate appraisal to be made. No previous knowledge of computers is assumed for these courses.

#### **1904 CA**

This one-week course is concerned with those versions of the 1900 which use the multi-programming processors, 1904 to 1909.

Prime consideration is given to commercial data processing problems. Various representative applications are examined to arrive at appropriate configurations of the 1900 which will yield efficient systems.

The work of both the systems analyst and the programmer in these fields of responsibility is covered, together with descriptions of the backing services which I.C.T provides to them.

The strategy of magnetic tape and direct access file processing using a multi-programming computer is explained, as is the question of attaining maximum efficiency from a multi-program processor and its peripherals.

#### **1902 CA**

This follows the same lines as the 1904-9CA course and is designed for the same grades of executive. It is confined to the techniques employed with the 1902 and 1903 processors, including magnetic tape and direct access file processing. This is a one-week course.

#### **1900CA(S)**

This is a compact three-day course which concentrates on the essentials, with particular reference to scientific and technical problems. Various applications are considered and the possible configurations of the 1900 which will result in efficient systems. The philosophy of the 1900 series computer systems is presented together with a general picture of the PLAN language code.

The strategy of magnetic tape and direct access file processing is explained.

### APPLICATION-SYSTEMS

There are two different courses in this branch and both are of two weeks duration. They are designed for the benefit of the systems analyst who will be concerned with the preparation of systems and include that part of his work which is carried out in close co-operation with the programmers. Deep previous knowledge of computers is not required but that which can be acquired from the appreciation courses is advantageous

#### **1904 DPS**

This course is devoted to the multi-programming versions of the 1900 and includes appreciation of the specifications and the application of these systems.

An introduction to the general principles of systems analysis and design is given, followed by instruction in the preparation of flow charts and other documentation essential to the process of implementation.

Practical systems exercises are included and selected to suit the particular interests of those attending the course.

Co-ordination with the work of the

programmer is maintained throughout the design and exercise parts of the course.

#### **1902 DPS**

This course is basically similar to the 1904 DPS but is directed towards the techniques involved in the application of the 1902 and 1903 central processors. Liaison with the programmer is brought out in this course also.

### PROGRAMMING

There are two courses in this branch, the main difference being in the depth of study. One is of two weeks and the alternative four weeks duration allowing fuller investigation into the same problems. The courses do not demand extensive knowledge of computers but some programming background or experience on another machine is desirable.

#### **1900PM (S)**

This is the two-week course and its basic purpose is to teach the 1900 series specifications and programming languages particularly the various versions of PLAN which are discussed in detail.

All aspects of programming techniques are covered from initial flow-charting to final assembly, and in the later stages the different techniques associated with single or multi-programming systems are covered independently.

Some study is concentrated upon the solution of scientific and technical problems.

#### **1900PM**

This is a more extensive (four weeks) course and is orientated more towards commercial applications. The greater length of time allows of a wider range of problems to be considered and more actual programming exercises to be included.

The work of co-ordinating with the systems analyst is included and participants are taken through all the stages to the final assembly of viable programs.

Full details of these courses may be obtained from any I.C.T office.

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