

ULTIM - Course Description

	Expertise Acquired	Main Elements Studied in the Language
DAY 1 Basic Programs	<ul style="list-style-type: none"> Identify the components of the system and modify an existing ECL/JCL Sequentially read a conventional file or a database Produce a simple multiline report (labels, cheques, phone directory) Produce a simple tabulated report (columns of information with totals and subtotals) 	<ul style="list-style-type: none"> Relationship between a program and the JCL (or ECL) Data structures (records, fields, literals, mathematical expressions) Report elements and their attributes Use of criteria to control processing and printing Introduction to the BEGIN, END, COMMENTS, PROCESS, CRITERIA, REPORT, LINE, CONTROL, TITLE, HEADINGS and TEXT statements
DAY 2 Standard Programs	<ul style="list-style-type: none"> Simultaneously access multiple files and databases, sequentially or by key; create and modify files Perform calculations making use of totals and produce classic reports involving summaries, averages, vertical percentages, etc. Include variables in the headings, footings and total lines Translate codes into texts Using work fields Call subprograms and functions 	<ul style="list-style-type: none"> File processing: FILES, PROCESS, EXTRACT statements Totalizing: MATH-TOT and TOTAL statements, NUMBER, PRE-TOTAL, CUMUL parameters, etc. Definition and use of the translation tables (./OPTIONS, ./TABLE, SYSTBL file, ?tbl parameter) Data handling : DEFINE and SET statements Processing control: PERFORM, GOTO, LOOP, ELSE, etc. Procedure, subprogram and function calls Introduction to the screen mapping statements
DAY 3 Complete Language	<ul style="list-style-type: none"> Handle repetitive data (segments, trailers, arrays, etc.) Control ourself the access to the files and recover from errors Use all the statements and options available in the system Understand the tricks used in older programs 	<ul style="list-style-type: none"> Complete language for accessing segments Advanced options: OPENING, ON-ERROR, etc. Instructions OPEN, PREPARE, etc. Access to the symbols and to the return codes Compatibility options Bits and characters handling

If you cannot attend a 3-day class, it is possible to only attend part of the class and still take advantage of it. It can also be profitable to organize a **class tailored to your needs** in your office.

In all cases, we suggest that you contact us; we will be glad to help you select the course that will best match your needs.

