



C M S TRAINING

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# COMMERCIAL

COMPUTER PROGRAMMING



A DISTANCE LEARNING COURSE



# CMS TRAINING

## COMPUTER PROGRAMMING COURSE

This Course is designed to provide the Student with basic working knowledge of the Microsoft Windows Operating System, the basics of the Internet, QBASIC language, introduction to UNIX and C++ languages with a high commercial bias. This Course brings together an invaluable collection of programming skills allowing the Student to command and harness the full power of the Computer whether through operating systems or applications software, while attaining TWO internationally recognised formal qualifications.

The Student will progress through the Course in the following steps:

STAGE I	STAGE II
MS-Windows tutorial on CD-ROM	C++ Programming Stage Two (424) Course Practical and Theory with Windows Visual C++ Compiler
Internet tutorial on CD-ROM	Commercially oriented projects assessed by City & Guilds Assessor.
QBASIC Stage One (953) Course on CD-ROM with Flowchart Template	424 City & Guilds Applications Programming Examination & Certification
Theory & Practical Intermediate Examination / Diploma	
Job hunting software	
953 City & Guilds Examination / Certification	

## MICROSOFT WINDOWS TUTORIAL ON CD-ROM

This is a much easier way to learn the Microsoft Windows Graphical User Interface (*GUI Shell*) totally visually together with a tutorial commentary, which is easy to follow and will in few stages allow the basic mastery of this important tool very much in use in everyday businesses and other organisations. This will build up the Student's level of confidence and proficiency with the Windows Operating System; the most widely used commercial

The Internet package covers an Introduction to the Internet, E-mail, and contains an extensive help section. With the introduction of virtually FREE Internet connections by various service providers such as FreeServe, Tesco and British Telecom, Students can participate in this revolution at negligible cost.



interface, being demanded by employers at present. It will allow the Student to get the most out of their computer system. The Windows Operating System is vital to the functioning of the current commercial computing environment, it is therefore a prerequisite that is certainly very useful as a part of the Course Package for the Student's overall development into a Programmer.

## INTERNET TUTORIAL ON CD-ROM

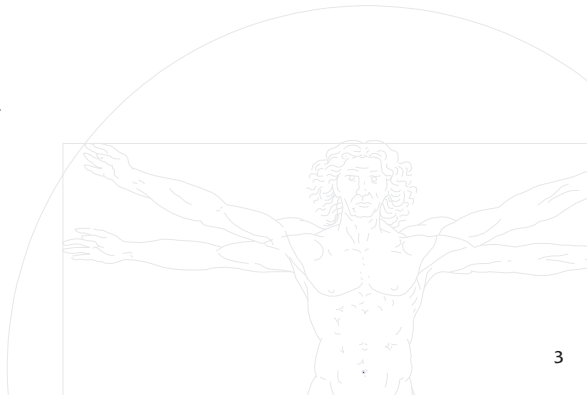
As this sector of the Information Technology has expanded extremely rapidly, it is vital for those seeking jobs or improvement in their standing to grasp the basics of the Internet. The C M S Training Package includes the Internet Tutorial for two important reasons:

- *Although there is no formal examination or certificate for this tutorial, learning to use the Internet is now a vital necessity for those who live and work in the 21st Century. The odds of getting a computing job are also narrowed in favour of those with Internet skills.*
- *Students are expected to send and receive from their Tutors, exercises, assignments and queries over the Internet.*

## INTRODUCTORY COMPUTER PROGRAMMING COURSE

For someone who has never programmed before this is the starting point. Two personal Tutors will normally be assigned and Tutorial support is provided through the Postal Service and/or E-mail. There are self-assessed and Tutor assessed exercises. Step-by-step guidelines make for easy progress. A Flowcharting Template is provided for program design allowing the Student to develop and document the programs by breaking them down into

*(continued next page)*



their component parts and preparation of professional looking flowcharts. If the Student does not have Internet access an 'Answers' disk will be provided for the Student to save all their work on and return to their Tutor for marking. In this Initial Course which trains the Student through the QBASIC Language up to C M S Training Intermediate Examination, successful completion of the Intermediate Examination will lead to the City & Guilds 953 Introductory Computer Programming Examination and Certification. Also the *C M S Training Diploma* will testify to your programming abilities – another important document for opening career doors.

There are *nineteen sections* to this part of the course, three sections cover *Returnable Exercises*.

*Note: If a Student is already conversant with other computer Languages, they may be offered exemption from Stage-1 (Introductory Computer Programming Course), however, the Intermediate Examination is compulsory for all Students.*

## JOB HUNTING SOFTWARE

The major aim of most of our students is to obtain a new job or advancement in their current job from their training efforts. Often, even the brightest Student fails to secure a job purely on account of lack of tactics. It is all very well becoming qualified and certified, yet sometimes very simple tips used in preparation of CV's, personal presentation at interviews, and approach to the task of winning a position, prove their worth. Accordingly C M S Training include in their overall Course Package Job-Hunting software to improve the chances of their Students securing jobs. So even though the Job Hunting software has no direct bearing on the Programming Course, it is just as important and vital for the Student's overall preparations for success in the jobs market. It is those people, who make quick rational decisions that are successful in their lives. Unlike other Training Providers who devote their efforts solely to getting a Student through an Examination, C M S Training's package approach provides the Student an overall outlook and purpose in their training, by including materials likely to advance the Student's aims.

# Stage 2

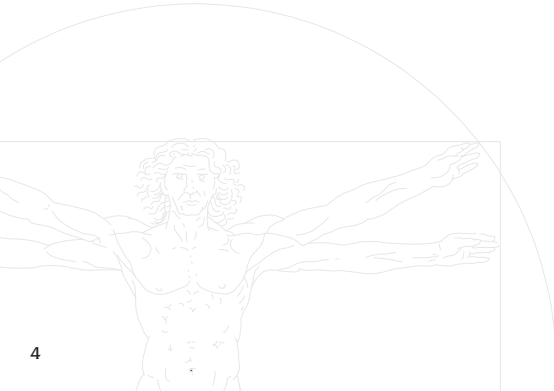
## STAGE II – THEORY AND PRACTICAL IN THE 'C++' LANGUAGE.

The Theory tutorial is provided in printed manual form, while the Practical is on CD-ROM for 'hands on' training. Programming in 'C++' through Windows and a Multimedia System contains interactive exercises and project Coursework for completion with full tutorial support. Each section of the syllabus is carefully tutored and progressed step by step. The Student is required to listen carefully to their Tutor's narrative delivered along with the Course Materials on the CD-ROM. As the Student will require a Visual 'C++' Compiler to execute exercise programs, C M S Training will provide a compiler

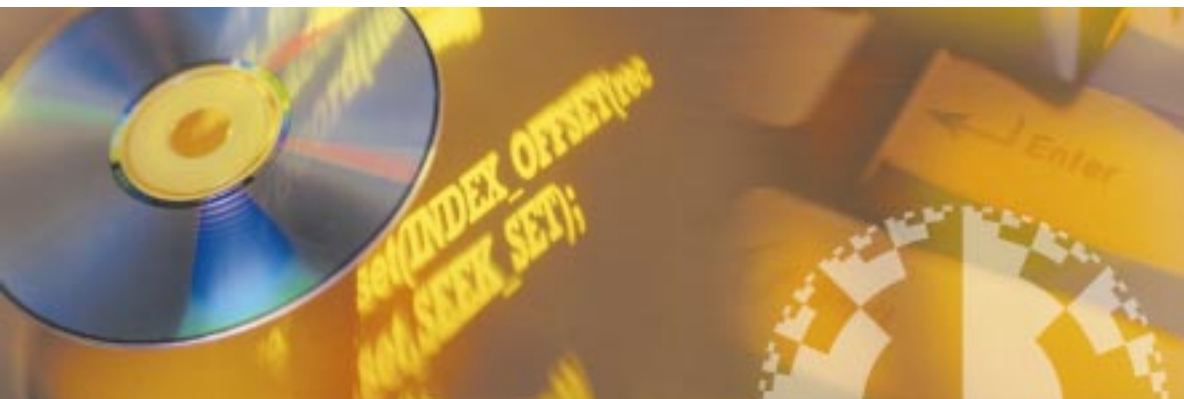
suited for the purposes of this Course for you to train with and keep, at the relevant stage. In this Course the ability to write and debug programs is reinforced by the fact that one learns far more about programming from mistakes made than from pure textbook studies. Your value as a programmer rises as you gain confidence with design, coding, running and debugging while developing professional programming skills. Provision of a 'C++' Compiler from the outset will help the Student at a later stage to master the 'C++' Language. Other reference material will be included for the Student's benefit.

The Stages of the Course are Program Design, Testing & Debugging, Documentation, Introducing 'C++', Coding Techniques, File Handling, Validation Techniques, Sorting, and The IT Department. Each Stage contains full narrative explaining the Course.

As you discover the benefits of 'C++', your knowledge of this 'hot' language will provide you with the competitive edge in your career. On completion of the Coursework and exercises, the 424 Examination will lead to further formal City & Guilds assessment, examinations and certification.







## COURSE SYLLABUS FOR STAGES ONE AND TWO

### STAGE ONE

will introduce the Student to the concept of Computers and Programming (using QBASIC):

#### INTRODUCTION TO COMPUTERS

- How to set your computer
- How a computer works - an explanation of the parts.
- Programming Languages - explanation of their purpose.

#### BASIC SYLLABUS

- Introduction to QBASIC - use of Menu Bar Commands  
- SAVE, OPEN, RUN
- Program Structure - REM
- Arithmetic Operators - PRINT
- Input - INPUT, READ, DATA
- Output - Screen and paper, PRINT in depth, TAB, LOCATE,  
CLS, LPRINT

- Numbers - Precision & Functions in BASIC (ABS, SGN, INT, RND, FIX, SQR)
- Program Design - Flowcharting
- Decision Making - IF THEN ELSE, Relational Operators
- Loops & counting - FOR NEXT STEP, DO WHILE
- String - Functions (CHR\$, VAL, LEN, ASC, RIGHT\$, LEFT\$, MID\$, INKEY\$)
- Data Structures - Lists, tables, nested loops, DIM
- Sorting
- Subroutines - GOSUB ON
- Files - OPEN, CLOSE, INPUT#, WRITE#

C M S INTERMEDIATE EXAMINATION / C M S TRAINING DIPLOMA  
CITY & GUILD 953 EXAMINATION / CERTIFICATION

### STAGE TWO

outline for 424 C++ Course Four Part Syllabus:

#### PART I

- History and development of Computers \*
- Computers in action - Practical applications \*
- Introduction to Hardware \*
- The Central Processor, numerical presentation \*
- Introduction to 'C++' Programming-
- 'C++' Language Constructs
- Loops
- Library Commands
- Program Development and Documentation including-  
  - Program specifications
  - Flowcharting \*
  - Decision Tables \*
  - Program Modules \*
  - Testing \*
  - Dry Running \*
- System Specification
- Advanced Programming Techniques-  
  - Case Study of Design Procedure \*\*
  - Database Example \*\*
  - Binary Search \*\*
- Tutorial Exercises:  
  - Assessed Theory Test I
  - Telephone Book Project

#### PART II

- Input Methods \*
- Output Methods \*
- Magnetic Tapes \*
- Magnetic Discs \*
- Files: \*  
  - Serial
  - Sequential
  - Index Sequential
  - Random Access
- Use of Files \*\*
- Tutorial Exercises:  
  - Assessed Theory Test II
  - Course Work Assessment Program One - Input Validation

#### PART III

- File Processing Procedures \*
- Databases
- Data Security and Privacy
- Sort \*\*
- Merge \*\*
- Data Validation \*\*
- Tutorial Exercises:  
  - Assessed Theory Test III
  - Coursework Assessment Program Two
  - Master File Update

#### PART IV

- Machine Code \*
- Low Level Languages
- High Level Languages
- Job Control Packages
- Software Packages
- The Data Processing Department
- Tutorial Exercises:  
  - Assessed Theory Test IV
  - Coursework Assessment Program Three - Print Program

C M S Training reserve the right to provide alternative or improved training materials depending on availability of outsourced materials. The syllabus may also be changed to meet City & Guilds of London Institute requirements.

C M S Training also reserve the right to arrange examinations at alternative centres.

The European, North American, and Asian Course contents and terms of delivery may vary to suit local requirements.

The Students complete all practical exercises using their own personal computers.

\* = Theoretical self assessment exercise  
\*\* = Practical self assessment exercise

# Questions & Answers

*Q: Can anyone become a Programmer - a profession that seems difficult?*

A: It is quite OK to feel concerned about one's ability to enter the world of programming. Virtually all Students are a little nervous and hesitant at the beginning. The main aim of the Course is to allow our Students the advantage of *free* progress without anxiety - you progress through the Course without classroom pressures and according to your own pace and ability until each stage is assimilated thoroughly. At the same time you will learn programming by using the computer's own special power of providing interactive training without ever getting tired of going over the material several times. The Student will form a 'classroom of one to one with the computer'.

The important points to remember are that your progress will depend on the effort you put into the Course, and there can be no progress without a certain amount of sustained and dedicated work.

C M S Training has one important requirement prior to the Student's enrolment - and that is for the Student to pass an Aptitude and Training Assessment Test. This is provided completely *free of charge* for the benefit of the Student. A failure in this test would result in exclusion from C M S Training Courses. Therefore the right of admission to this Course is reserved dependent on the outcome of the above entry test. At this time C M S Training also assist the Student by pointing out the various methods of funding for Course fees and a computer.

Meanwhile those Students already with some knowledge of programming may be allowed exemption from Stage I of the Course. *Exemption* will only be allowed where the Student is demonstrably proficient with programming or computer studies and holds suitable qualification equivalent to the City & Guilds 953 Introductory Computer Programming Certificate, or higher.

*Q: What are the Student's obligations?*

A: The Student is required to provide, prior to starting the training, their own computer or access to one with minimum specifications as follows:

- This computer must be an IBM compatible with Pentium II or better processor.
- RAM (*Random Access Memory*) at least 32 Mb or higher.
- Hard disk with minimum 1 GB capacity or higher.
- Multimedia CD-ROM Drive with sound card and speakers.
- Suitable modem for connection to the Internet.
- A 3.5 inch Floppy Disk drive.
- A Microsoft-Windows 95 operating system or higher.
- A printer will be required at Stage II of the Course.

This minimum computer system is essential in order to use the Visual 'C++' compiler supplied with the Course. This investment in a computer system may be worthwhile over the long term in many ways during and after the Course completion - such as any programming work done for a potential employer at home or word processing, spreadsheets, database and even leisure. So if possible, always choose a system with

## F R E Q U E N T L Y   A S K E D   Q U E S T I O N S



higher specifications than detailed. All training materials including the compiler provided by C M S Training are yours to keep.

*Q: Apart from the Course fees are there any other expenses the Student will need to provide for? E.g. such as Examination fees charged by the City & Guilds of London Institute?*

A: Such additional expenses as related to postage, stationery, disks, and other consumable supplies are the only items not included in the fees and provision of these are the Student's responsibility. The other main exclusions are the Examination Fees for the 953 and 424 Certification by City & Guilds. The Examination fees are *not* included as these are controlled by City & Guilds and are difficult to estimate in advance. The costs relating to fares and journeys to the Examination centres are also excluded from the Course fees. There are no other hidden or extra charges.

*Q: What educational qualifications must I have to enrol with C M S Training?*

A: No previous programming experience is required or even any formal educational qualifications necessary. C M S Training will enrol any competent Student provided the result of the Aptitude Test and/or an in depth personal assessment by a member of our team of Selection Managers are positive. The assessment will establish the Students' aims and ambitions, explore their levels of determination, discipline and

family support whilst explaining the exact methods of the training scheme and thus the challenges of the Course. Successful candidates will have demonstrated to our Selection Managers a genuine desire to enter the world of computer programming supported by aptitude, determination and discipline to manipulate the scheme properly so as to achieve their goals. If you *missed out on education in your early years* this is a golden opportunity to make good the shortfall.

Our Distance Learning Courses start with easy lessons and builds from this grounding a firm foundation in programming using the latest methods of imparting such training. Indeed, from day one your personal Tutor will answer all your questions, provide help to overcome difficulties, and work with you to guarantee your success. What C M S requires is determination and hard work from the Student with the ability to make decisions for success.

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Q: *Is Distance Learning Recognised?*

A: Since its inception in 1983 C M S Training has enjoyed recognition as an Authorised Examination Centre for the City & Guilds of London Institute. City & Guilds approve the Coursework. Many Students have gained formal certification through Distance Learning. We are striving to introduce better learning methods all the time.

Q: *Does C M S Training guarantee Computer programming jobs?*

A: C M S Training can be of considerable help to Students by providing testimonial reference letters and letters of recommendation to potential employers or existing employers should you be in line for promotion or salary increase. C M S Training often receive inquiries for trainees from Computer Recruitment Agencies, where C M S Training can direct the Student to register for leads to computing jobs. C M S Training provide useful materials such as *Job Hunting* software to assist the Student with C V's, interview techniques, and self-presentation. However C M S Training cannot formally guarantee jobs to Students, neither can any other reputable school or college.

The mere fact that an individual has invested their own time in a self funded Recognised Course is often evidence enough to a potential employer of the Student's worth - attaining a profession in a sensible

manner. The on-going Coursework can also be shown to any prospective employer with pride, as the programs are commercially oriented. The main aim is to project the Student at the industry with the requisite technical ability and experience, plus careers guidance through interview techniques, C V Preparation, provision of references and any other assistance to be able to use that back up successfully and quickly.

Q: *Is Distance Learning costly?*

A: Our Courses are much more cost effective and flexible compared to the several thousands charged per term by Private schools or even by Universities, both the latter are today very expensive without any guarantees of end results.

Unlike other Training providers who limit training to one language or charge exorbitant fees for just 2-5 days training, C M S Training enables you 'hands-on' training in WINDOWS operating system, an Introduction to UNIX, the QBASIC Programming Language, the 'C++' Language, and Internet tutorial for a modest outlay. Also tutoring continues indefinitely until a pass is obtained in the final 424 Examinations for 'C++' Language *even beyond the 12-month course duration*. That is our *guarantee* and provides real value for money.

Furthermore there is no wasted time or money spent travelling to and from a classroom following a rigid classroom timetable. There are no missed classes. There are no classroom pressures either, in case you fall behind in work or are held back by the slowest learner in the group. Our flexible training system acts for the positive financial benefit of the Student. A very small investment compared to the possible returns from a future job.

C M S Training does not provide a Tutor at the end of a telephone line because of the necessity to keep fees lower, while offering the Students a reasonably priced service. However, our Tutors will return phone calls to

C M S TRAINING

# Guarantee

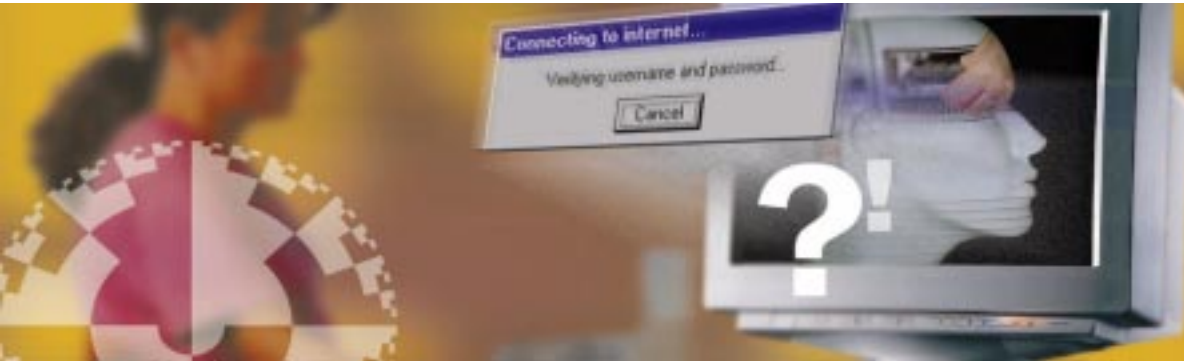
**No other Training Provider in Britain teaches our syllabus including C++, BASIC, WINDOWS & UNIX for one low tuition fee. If you find an institute that does, we will refund your tuition fees and let you complete our Course FREE.**

**G U A R A N T E E** If you are serious about your future, so are we. No matter how long beyond the twelve months it takes to complete the course, training will continue until a pass is attained in the Final Examinations without extra tuition fees.

**G U A R A N T E E** If you have difficulty funding tuition fees at present, our Financial Aid Office will even arrange Government Funding or Career Loans for you to meet your particular financial needs with low monthly payments.

**G U A R A N T E E** Now you have NO REASON to put off training for a brighter future and career.





any Student, who is completely stuck even after having gone through the 'queries response system' by mail or Email exchange. The way C M S Training Courses are organised this eventuality should not hopefully arise too often.

However, if you prefer a rigid classroom situation where you can raise your hand and say "Please Sir/Madam?" then this Course is not for you.

*Q: How long before I qualify?*

A: There is no set finishing time for the 953/424 Course offered by C M S Training. As Students have their own differing study times, the duration can be estimated only. With a study input of approximately 4/5 hours per week, the following average duration has been estimated:

- 953 Introductory Computer Programming & Full 953/424 Course together. Average duration is 12 months. All our calculations of a Student's progress in the Course are based on the 12 month Course duration.

*Q: What happens if I have to abandon training for a short time?*

A: Living in the real world it is quite possible to face unforeseen circumstances - perhaps the demands of a new job, ill health, marriage, and other unforeseen occurrences! These may prevent training. However C M S Training will gladly accept a postponement of your training rights to a future date without penalty. If the Student should move residence, again C M S Training will transfer the privileges of registration to your new address. However, as C M S Training would have pre-committed resources for your training on enrolment, the fees and any installments must be paid when due and cannot be postponed to a future date.

*Q: Why the QBASIC language for the initial training?*

A: Quite simply it is not easy for beginners to walk straight into learning sophisticated computer

languages. QBASIC meets the following requirements for the C M S Training Course:

- a) It should be easy for beginners.
- b) Advanced features should not get in the way of those learning the language.
- c) No understanding of the hardware should be necessary.
- d) It should shield the user from the operating system.

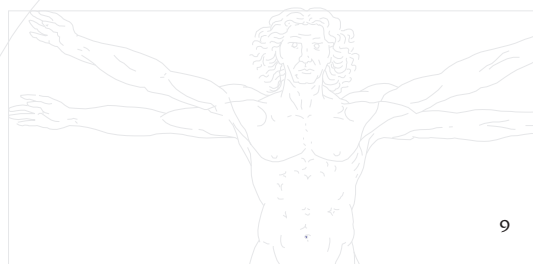
C M S Training coaches the Student through QBASIC and C++ Languages while ensuring they know enough about current Operating Systems and hardware as well to meet the challenges of modern computing jobs.

*Q: Who are C M S Training?*

A: C M S Training was founded in 1983 specialising in Computer Programming Courses. Since then it has been an Authorised Examination Centre for City & Guilds of London Institute. During 1991 C M S Training Inc, Toronto, Canada was granted City & Guilds of London Institute Authorised Examination Centre status for North America, where the Programming Course has been assessed in Canadian terms to be the equivalent of first year University level. In 1998 C M S Training established a further Centre in India.

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Our achievements over the years include provision of training for some of the major organisations like British Telecom, British Gas, Anglian Water, Regional Health Authorities, the United States Air force, and also hundreds of individual students all over the world. The personnel strength of CMS Training is geared to provide service to trainees. The Directors, Tutors and Selection Managers represent many years of combined experience in the commercial computing/training field. They are working to ensure your success in computer programming. Their efforts over the years

have resulted in many Students attaining places in the computer industry. Letters of appreciation and thanks from a number of our Students are available for confirmation. At the same time the Courses are designed to use the most modern methods of instruction and priced so as to offer sound career training at very competitive fees. This affords many more applicants the opportunity to participate in the computer industry whilst broadening their horizons beyond their current educational achievements. The Tutorial Staff generally hold Degrees in

## WHAT OUR STUDENTS SAY ABOUT US



"I have pleasure in informing you that I have been successful in securing a graduate training scheme placement as a programmer/systems analyst with a major US investment bank. I am sure that the CMS Training course was a factor in achieving this even though I have yet to sit any of the exams."

– A Graham, St Albans, Herts.

"Most importantly I am writing to inform you that thanks to CMS Training, I have secured a position with a software company in Suffolk called Blythe Software Ltd as a Trainee Quality Assurance Engineer."

– Ian Thurbon, Beccles, Suffolk

"You may be interested to know, that from the beginning of December I have been working for Midland Personnel Financial Services as a Trainee Computer Operator."

– P Barretta, Eastleigh, Hampshire

"After five months on the scheme I began to apply for programming positions within the computer industry. Eventually I found a local company that was willing to take me on. So thanks to CMS for giving me the motivation and support I needed."

– J Henderson, Diss, Norfolk

"I am writing to let you know I have been offered a full time position at a software house that specialises in export/import PC systems and software as a Systems Developer. I am currently revising for my City & Guilds 953 exam which I sit next week, and continue studying toward my C examination. I am sure my involvement in your training Course has given me the opportunity to open up a new and rewarding career."

– R M Cox, Little Norton, Somerset

"I would like to let you know my present situation as regards employment. This course has been very comprehensive and has given me the confidence to apply for jobs in the computer industry. I gained employment a few months ago as a Technical Support Consultant. The job involves supporting accounts packages, and as my background is in accounts and I have been actively studying towards the City & Guilds Exam for Applications Programming, I feel that these were the reasons why I received the job offer."

– Wendy Taylor, Southampton, Hampshire

"I am thoroughly enjoying writing the programmes and I have even written two of my own programs for use within my business. I shall look forward to hearing from you and continuing on with the course."

– DM West, Stoke, Staffordshire

Computing and also have had considerable experience in the commercial computing industry. A factor that increases the chances of the Student gaining their first job in computing. Often Students are able to get a job in computing even before the completion of the full Course.

Initial membership of the National Computing Centre, the governing body of the industry, proved very valuable by producing specific and progressive training materials. Copyright Training materials developed and refined over the years to simplify the process of distance learning

supplement this. The training materials have a strong commercial bias, as the Courses are job orientated, helping Students into a new career in computing or by enhancing their existing career. Further recognition by the City & Guilds of London Institute has enabled provision of Internationally Recognised Qualifications for our Students who have a better chance of taking up the many programming opportunities both at home and abroad. C M S Training being a Recognised Centre, the Students have an added advantage of sitting the examinations at various times of the year. ■

## What our Students say

"May I take this opportunity to let you know that my career in computing have rapidly moved forward over the last few months. I am currently training as a support analyst for a small software house, a job I would never have been offered without knowledge of a programming language such as BASIC. The company are also keen for me to achieve a formal qualification in C programming and are already using the skills I have learnt to good use."

– S Young, Wakefield, West Yorkshire.

"I successfully applied for a new job on the IT help desk at Prudential Assurance Co Ltd. Although this was an internal move, I am sure mentioning the Course in the interview went some of the way to persuading the manager that I was the right person for the job. Even before starting the Course, I am reaping the benefits!"

– D Bye, Reading, Berkshire

"I am now employed as an Analyst Programmer at Mondial Assistance UK Ltd and appreciate your reference which helped me gain this position"

– Mrs S Brown, Croydon, Surrey

"I applied for the position of Estimator /Designer with a local company in February and had heard nothing until end May. Then out of the blue, they asked me to go for an interview, so, having listened to CMS's Job Search tapes, I went, and having done some research in advance, impressed my interviewers with the amount of preparation that I had done. I followed up with a 'thank you' letter (which I must confess I would never have thought of before) and within a few days, to my delight, they offered me the job"

– Peter Hall, Sittingbourne, Kent

"I am pleased to inform you that I recently secured a position as an Analyst Programmer at a local firm. I am hoping to complete the course before the end of the year"

– Ann E White, Preston, Lancashire

"I am writing to thank you for the help you have given me in passing my City & Guilds in C programming. I am surprised and delighted to receive my Certificate. To be honest I thought I would have failed my second written exam, as I made a right hash of it! I know that I could have and should have done better

in that one! Anyway thanks once again for your guidance and advice on the course."

– T Clark, Worthing, West Sussex.

"As a result of taking the course I have secured a job as a Trainee C Programmer with Ashworth Systems and now require Stage 2 material urgently."

– Julie M Robinson, Buxton, Derbyshire

"A few weeks ago, I was supplied with the name of Mountfield Software as a possible career choice by CMS. I followed up this suggestion. I passed an interview as Database Analyst Programmer with starting salary of nearly £21,000 rising to £35,000 at the beginning of fourth year. I would like to thank CMS for providing me with the name, for the help given on my CV, and generally providing me with the impetus I needed to start my job hunt."

– M Hutchins, Havant, Hampshire

"I apologise for the delay in sending this piece of coursework, but I have recently gained employment in the computer industry as a Computer Programmer and have been very busy with work."

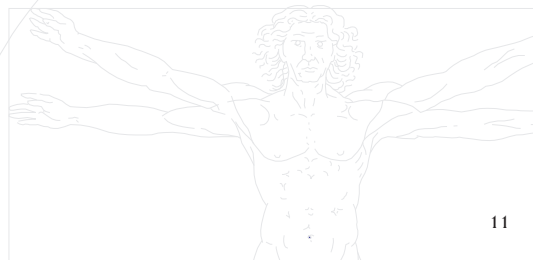
– M Lafferty, Bruton, Somerset.

"Would you pass on my thanks to all at CMS for a brilliant course"

– ND Ablewhite, Tiverton, Devon

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# Enrolment with C M S

## WHY YOU SHOULD ENROL AND GET STARTED TODAY

The C M S 'hands-on' training is exactly the right preparation for current fast developing programming career opportunities. The costs of increasingly powerful computers are falling all the time with the consequence that many more employers are able to afford such systems, raising the population of computers into millions. An important indicator to future job opportunities. While developing our Course Package, we carefully compared our Course Content, Course Focus, Course Materials and Services to those of other training providers. We firmly believe that the C M S Training Course is really what is right for current programming career opportunities. Why not take advantage by mastering 'C++', today's 'hottest' programming language to launch a high paying career, or even bettering your prospects in your existing career. The whole Course Package can prove to be an invaluable key to your future.



## C M S TRAINING

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E-mail: [sales@cmstraining.co.uk](mailto:sales@cmstraining.co.uk)

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*Employers are far more likely to take you seriously if they see you have invested your own time and money in training. They will know you are determined and have the right attitude compared to applicants who expect the employer to provide and pay for all the training.*

C M S Training's commitment to the Student is unsurpassed, so long as the fees are fully paid up – we will continue to train you until you pass the final examinations with no extra costs involved, no matter how long it takes, and we will be behind you every step of the way – *that's our commitment to you.*

Today, computer programming is a highly respected, well-paid and successful career field. The recent advances and continuing developments in artificial intelligence and computing power have put programmers in the forefront. It will be to the advantage of those who face this challenge with the right training. Those who act without wasting time can expect to reap the rewards. It's easy to enrol, simply contact today:

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