



## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s) **Antonio Carrasco Valero**  
Address 46001 Valencia (Spain)  
Telephone(s) Mobile |  
Fax(es)  
E-mail(s) carrascoeurocv@ModelDD.org  
Nationality Spain  
Date of birth 01/11/1962  
Gender Male

### Desired employment / Occupational field

**To contribute to the success of my employers and customers, by facilitating the adoption of sound software engineering practices and widely adopted standards.**

**To develop and distribute open source software development factories, to make affordable for any community the assembly of semantically rich collaborative applications.**

### Work experience

Dates	01/03/2011 - 05/2011
Occupation or position held	Director
Main activities and responsibilities	Provision complete collaborative portal solutions, including development, deployment and hosting, for non-profit organizations.  Applying server virtualization (VirtualBox, VMware,...) and Free-Libre Open Source Software (FLOSS) solutions like Linux, Apache, Nginx, BIND, Zope, Plone, Python, SVN, ...
Name and address of employer	Model Driven Development, sl - ES46920 Mislata Valencia Spain
Type of business or sector	Web Portal development and hosting
Dates	01/01/2008 - 28/02/2011
Occupation or position held	Director
Main activities and responsibilities	Architect innovative software development factories for Python/Zope/Plone, to provision floss communities with affordable collaborative content management applications. Content management tools are automatically produced from a semantically rich model specification, and supported by transactional and user-interface frameworks using Zope and/or Plone services.  Develop collaborative applications for localization of internationalized user interface symbols, and for specification and publishing of corporate procedures.  Drive business positioning to the market of Free-Libre-Open Source Software.  Manage tenders from public sector to win and serve four government contracts. Subcontract for government engagements through multinational system integrators.  Serving Regional Government, Conselleria de Infraestructuras y Transporte (CIT) de la Generalidad

	Valenciana (GV), y sus proyectos gvSIG and gvCASE (now MOSkitt).
	Some work products are available to the communities at large with GPL license, and downloadable from the forge at the European Commission Open Source Observatory and Repository: * gvSIG-i18n Plone application for localization of internationalized user interface strings. See project description ( <a href="http://www.osor.eu/projects/gvsig-i18n">http://www.osor.eu/projects/gvsig-i18n</a> ) and forge ( <a href="http://forge.osor.eu/projects/gvsig-i18n/">http://forge.osor.eu/projects/gvsig-i18n/</a> ) at OSOR. * gvSIG-business process definition, a Plone application for specification and publication of corporate regulations. See project description ( <a href="http://www.osor.eu/projects/gvsig-bpd">http://www.osor.eu/projects/gvsig-bpd</a> ) and development forge ( <a href="http://forge.osor.eu/projects/gvsig-bpd/">http://forge.osor.eu/projects/gvsig-bpd/</a> ) . * ModelDDvIPlone framework in support of the above. See description ( <a href="http://www.osor.eu/projects/mddvplone">http://www.osor.eu/projects/mddvplone</a> ) and forge ( <a href="http://forge.osor.eu/projects/mddvplone/">http://forge.osor.eu/projects/mddvplone/</a> ) .
	See better metrics at ohloh.net, for gvSIGi18n ( <a href="http://www.ohloh.net/p/gvSIGi18n">http://www.ohloh.net/p/gvSIGi18n</a> ) , gvSIGbpd ( <a href="http://www.ohloh.net/p/gvSIGbpd">http://www.ohloh.net/p/gvSIGbpd</a> ) and ModelDDvIPlone ( <a href="http://www.ohloh.net/p/ModelDDvIPlone">http://www.ohloh.net/p/ModelDDvIPlone</a> ) .
	Some production instances of the gvSIG-i18n application are available at <a href="http://www.gvsig.org">www.gvSIG.org</a> Desktop ( <a href="http://www.gvsig.org/web/projects/gvsig-desktop/gvsig_desktop_i18nstorefolder/gvsig-desktop-i18n/">http://www.gvsig.org/web/projects/gvsig-desktop/gvsig_desktop_i18nstorefolder/gvsig-desktop-i18n/</a> ) , and <a href="http://www.gvSIG.org">www.gvSIG.org</a> Mobile ( <a href="http://www.gvsig.org/web/projects/gvsig-mobile/gvsig_mobile_i18nstorefolder/gvsig-mobile-i18n/">http://www.gvsig.org/web/projects/gvsig-mobile/gvsig_mobile_i18nstorefolder/gvsig-mobile-i18n/</a> )
Name and address of employer	Model Driven Development, sl - ES46920 Mislata Valencia Spain
Type of business or sector	Computer Software Development Factory
Dates	01/06/2007 - 31/12/2007
Occupation or position held	Business Analyst for the Quality Management Department; Project Management Assistance for the EM2 flagship programme
Main activities and responsibilities	Contribute to the EuroMark2 flagship product: JavaEE, IBM Filenet Enterprise Content and Business Process (workflow) manager, and integration with over 30 external systems and services.  Gather and analyse busines requirements, deliver and liason with the external IT supplier to follow-up on requirements progress into implementation.  Organise logistics and develop tools for User Acceptance Test (UAT) of the EuroMark2 project.  Manage the requirements and defects data sets in liason with the external IT supplier.
Name and address of employer	Office for the Harmonization of the Internal Market (OHIM, OAMI), European Commission, Alicante, Spain
Type of business or sector	Intellectual Property: trade marks and designs
Dates	01/08/2006 - 21/01/2007
Occupation or position held	Methodology and Tools Consultant
Main activities and responsibilities	As independent expert. Write technical annexes for government tenders for Free-Libre Open Source Software tools for software development automation (CASE), targetting Metrica3, gvMetrica, JavaEE and LAMP.  Evaluate responses to government tenders above.
Name and address of employer	Fujitsu Services España, sau
Type of business or sector	Public Administration, software methodologies
Dates	01/05/2006 - 01/08/2006
Occupation or position held	Analyst
Main activities and responsibilities	Supply guidance and architectural patterns based on lessons learned in previous engagements on the same subject and industry, targetting JavaEE backends with innovative Semantic-Web implementations.
Name and address of employer	Push the Button, sl, Murcia, Spain
Type of business or sector	Research and Development in Model-Driven Software tools for the Semantic Web

Dates	01/04/2004 - 31/12/2005
Occupation or position held	Unified Process Engineer; Requirements Analysis Discipline Lead, liason with JavaEE Design and Development
Main activities and responsibilities	<p>Rational Unified Process Discipline Lead for the Construction Industry Scheme Reform, a highly scaleable JavaEE application, including intranet, extranet and call center front-ends, and integrating with the corporate web of services, and data warehouses.</p> <p>As RUP Lead of Requirements Analysis Discipline, worked with the JavaEE Design and Development team, to transform business and system requirements into a precise analysis, tailored for its mapping to the chosen Java2EE scaleable architecture.</p> <p>Secured the system alignment to business requirements, by pioneering the adoption of UML2 behavioral modeling, while protecting the organisation's extensive investment in UML1 tooling.</p> <p>Mentored in the best practices of the Rational Unified Process (RUP), for the Analysis and Design discipline, using UML2 and the IBM-Rational Rose toolset.</p> <p>Author recommendations and guidelines for the development of Data Warehouses applying the RUP process framework.</p> <p>Develop Rational Rose extensions in support of UML2 and Enterprise Collaboration Architecture standards.</p> <p>Hands-on work participating actively in the critical path of Analysis of Requirements, Use Cases and forward engineering into multi-tiered Design with target platforms: J2EE, Weblogic, Oracle and Webmethods.</p>
Name and address of employer	Her Majesty Revenue and Customs;Telford, United Kingdom
Type of business or sector	Tax and Customs administration
Dates	01/11/2002 - 02/02/2004
Occupation or position held	Consultant; expert reviewer
Main activities and responsibilities	<p>Architect model-driven internet solutions.</p> <p>Expert reviewer for projects sponsored by the European Commission in the tourism sector.</p>
Name and address of employer	Sole-trader
Type of business or sector	Consultancy for Public Administrations and SMEs
Dates	01/03/2002 - 31/10/2002
Occupation or position held	Standardization consultant
Main activities and responsibilities	<p>Participate in the company's estandardization strategy.</p> <p>Represent the company in the Object Management Group.</p>
Name and address of employer	IOSYSnet, SA, Brest, France
Type of business or sector	business process and business intelligence; tools development
Dates	01/06/1998 - 01/10/2002
Occupation or position held	Chief Architect for product line; co-author of standardization submissions
Main activities and responsibilities	<p>Contributed to model-driven architectures, modeling tools and application provisioning automation, targetting the (then) new Java Enterprise (1998).</p> <p>Influenced the Java tooling industry, first to deliever architectures which are now well known through the Eclipse toolset.</p> <p>Including pilot projects for General Motors (Detroit, USA), to migrate into new Java Enterprise architecture, the Design Changes Database, and Production Changes Database.</p> <p>Contributed innovative architectues for semantically rich, agile interaction human interfaces, for the (then) new platform we know now as IBM WebSphere (JavaEE product line). A defense-driven initiative lead by General Dynamics, National Institute of Standards and Technology and others (USA).</p>

	Developed for UNISYS a number of pilot toolsets and frameworks, for accelerated, model-driven provisioning of Java Enterprise applications and services.
	Contribute innovative modeling standards for enterprise service components, including the UML profiles for EDOC and EAI in the Object Management Group, and the ebXML Business Process Specification Schema in UN/CEFACT.
	Develop proof-of-concept tools in support of the adopted standards.
Name and address of employer	Data Access Technologies, inc. Miami USA
Type of business or sector	Software development standards and tools
Dates	01/03/2001 - 30/08/2001
Occupation or position held	Senior Staff Software Engineer
Main activities and responsibilities	Contributed to the analysis, design and development of the new generation of large-scale health-care laboratory instrumentation.
	Participated in this innovative, model-driven architecture and C++ implementation, satisfying the most sensitive quality assurance imposed by law to medical systems for human health. Applied end-to-end the IBM/Rational toolset, under strict rules and practice to comply with quality assurance regulations.
	As Senior member of the Systems Architecture Group, contributed proposals for the integration with Hospital Information Systems, of this innovative laboratory instrumentation architecture.
Name and address of employer	Beckman-Coulter Cellular Analysis Development Center, Miami, Florida
Type of business or sector	Health-care, large Laboratory Instrument Systems
Dates	01/01/1998 - 30/05/1998
Occupation or position held	Framework consultant
Main activities and responsibilities	Contribute to the core corporate technology asset for the agile development of Syndicated Loan products (for high volume, complex financial deals).
	Maintained and developed a rich declarative framework, with a 4 layer architecture, with specific responsibilities in the object-transactional kernel and user interface.
	VisualAge Smalltalk, DB2.
Name and address of employer	Bankers Trust, World Trade Center, New York City, USA
Type of business or sector	Finance; large syndicated loans
Dates	01/12/1996 - 31/12/1997
Occupation or position held	Mentor
Main activities and responsibilities	Assist individual projects in best development practices, and fine performance tuning. Assess readiness of software libraries for Y2K (year 2000) compliance. Develop proof-of-concepts for corporate transition from 2-tier to 3-tier distributed systems using CORBA and Java.
Name and address of employer	J.P.Morgan, Wall Street, USA
Type of business or sector	Finance; Investment banking and foreign exchange
Dates	01/04/1995 - 30/11/1996
Occupation or position held	Software engineer
Main activities and responsibilities	Contributed to model-driven tooling for Java enterprise solutions provisioning - before Java was extended with what we now know as JavaEE.
	Develop innovative approaches to agile development of computer-aided software engineering tools.
	On-site deployment and support of modelling practice, repositories, and tools.
	Participate in the first commercial implementation of what is now known as Object Constraint Language (OCL) of the Unified Modeling Language (UML).

	Develop prototypes and proofs of concept in support of the company's contribution to the UML standard.
Name and address of employer	Reich Technologies; Brest, France; Brussels, Belgium; Paoli PA USA
Type of business or sector	Copyright co-holder of UML 1.x - Software Development methodologies, tools and standards
Dates	01/01/1989 - 31/03/1995
Occupation or position held	Owner
Main activities and responsibilities	Acquired and developed technology and open source products unique in the country. Shrink-wrapped a product using bleeding-edge technology, and sold to the very exclusive vertical market of Spanish Notaries. Launched a new company initiative, strategically positioned to receive public funding for innovation and venture capital. Timely entered the international market of object oriented consulting.
Name and address of employer	Self-employed with commercial name MindWare
Type of business or sector	Multi-platform Software Development tools
Dates	01/02/1992 - 30/09/1992
Occupation or position held	Software engineer
Main activities and responsibilities	Developed components for the DIMONY family of products, national leader at the time in corporate solutions for Accounting, CRM and ERP.
Name and address of employer	Dimoni
Type of business or sector	Shrink-wrapped applications for accounting, CRM and ERP
Dates	01/04/1988 - 30/04/1989
Occupation or position held	IT Manager
Main activities and responsibilities	Launched IT services in support of the foundation of the agency. Acquire from central government the management of the public housing stock of over 30,000 apartment units, and over 300,000 unpaid bills. In charge of multimillion electronic fund transfers.
Name and address of employer	Instituto Valenciano de Vivienda, sa; Generalidad Valenciana (regional government)
Type of business or sector	government agency for public housing and infrastructure development
Dates	28/11/1985 - 31/03/1988
Occupation or position held	Software engineer
Main activities and responsibilities	Contributed visionary innovations, now proven, in scaleable N-tier architectures, model driven development and software patterns. Developed systems for public hospitals, accounting, and telecommunications. Adopted and contributed to early open source offerings in the UNIX & C technologies. Pioneered the launch of electronic open source communities with the development and launch of telematic systems for electronic conferencing, content sharing and discussion.
Name and address of employer	Dirac, sa, Valencia, Spain
Type of business or sector	Hardware and Software supplier
Dates	22/05/1985 - 13/11/1985
Occupation or position held	Trainee
Main activities and responsibilities	6 months course leading to permanent recruitment by the utilities company. After my grand-grand-parent, my grand-parent, my father, and myself in 1982-1983, working in same utilities business, I dropped the profession of electrician after successful completion of the course, and joined Dirac for an IT software development position.
Name and address of employer	Hidroelectrica Española, sa - now Iberdrola
Type of business or sector	Electricity distribution

Dates 01/07/1984 - 30/04/1985  
Occupation or position held Trainee  
Main activities and responsibilities Develop components and applications within the 4th.generation language developed by the company.  
Name and address of employer Compusoft, SA, Valencia, Spain  
Type of business or sector Business software application development

Dates 01/09/1983 - 30/09/1984  
Occupation or position held Corporal  
Main activities and responsibilities Command the light mortar squadron.  
Company Quarters management.  
Name and address of employer Fuerzas Armadas Españolas, Ejercito de Tierra, Brigada de Cazadores Zapadores de Alta Montaña  
Type of business or sector Fast response unit

Dates 01/05/1982 - 30/06/1983  
Occupation or position held Chief machinist and boards operator  
Main activities and responsibilities Sole operator of a dual engine hidroelectric facility on the Jucar river, as part of the team running round-the-clock shifts.  
Participate in the whole dismantlement and re-wamping of the entire facility after the 1982 flood.  
Name and address of employer Hidroelectrica Española, sa - now Iberdrola  
Type of business or sector Electricity production - hidroelectric

Dates 01/02/1984 - 30/11/1984  
Occupation or position held Junior Software and Hardware technician  
Main activities and responsibilities Assist in the marketing of the company's hardware and software products to whole-sale and retailers.  
Pre- and post-sales support.  
Name and address of employer Comercial Tecnográfica, sl - Valencia- Spain  
Type of business or sector Document processing and information systems; Regional distributor of first PC made in Spain

## Education and training

Dates 01/09/1985 - 30/09/1987  
Title of qualification awarded partial studes in Computer Science  
Principal subjects / occupational skills covered Increased responsibilities in professional activities took over time allocated for studies.  
The Foundation for International Services evaluated my academic credits plus professional experience, as equivalent to a bachelor's degree in computer science from an accredited college or university in the USA.  
Name and type of organisation providing education and training Universidad Politecnica de Valencia.- EUI (Universidad Politecnica de Valencia.- EUI)  
Level in national or international classification

Dates 01/09/1980 - 30/09/1983  
Title of qualification awarded partial studies in Electrical Engineering  
Principal subjects / occupational skills covered Interrupted by mandatory military service.  
After military service, changed courses to Computer Science.  
Name and type of organisation providing education and training Universidad Politecnica de Valencia - EUITI (Universidad Politecnica de Valencia - EUITI)  
Level in national or international classification

## Personal skills and competences

Mother tongue(s)

**Spanish**

Other language(s)

Self-assessment

European level (\*)

**English**

**French**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
A1	Basic User	A1	Basic User	A1	Basic User	A1	Basic User	A1	Basic User

(\*) [Common European Framework of Reference \(CEF\) level](#)

Organisational skills and competences

Contribute technical argumentations facilitating the consensus of previously disjointed parties, for standardization processes, and information technology projects.

Experience in rolling-out and driving processes adapted to the organization's culture and practice, backed up by a deep understanding of software development process engineering.

Technical skills and competences

For computers see section below.

Heavy industrial equipment for electric power generation and distribution.

Computer skills and competences

Modeling standards:

\* UML 0.8, 1.x, 2.x; BPMN, BPDM, BMM. ebXML BPSS (co-authored).

Implementation Technologies

\* Programming languages. Python. Java, Smalltalk, C++, C (KR ANSI), Pascal, Modula-2. SQL. Logo, Postscript, Query3000 (HP), various Assemblers, Basics, Shells and scripts.

\* Development environments : Eclipse; Java : Jbuilder, VisualCafe, VisualAge. IBM Smalltalk and VisualAge. ParcPlace Smalltalk-80, VisualWorks, including user primitives VM customization. VisualWorks DLLCC interface. VisualWorks. Sybase CT-Lib interface. Distributed Smalltalk (DST). Gemstone for Smalltalk. Custom. VisualC++.

\* Version control and configuration management : CVSnt, SVN, ENVY, MS Visual SourceSafe, StarTeam, Rational ClearCase.

\* CASE tools : Eclipse, MOSkitt, Topcased, Sparx Enterprise Architect, Rational Rose, Objecteering, Argo derivatives, ISF, and proprietary.

\* Middleware. XML, SOAP, XML-RPC, WSDL, SOA. CORBA: DST, Orbix/ST, OrbixWeb, Visibroker for Java. COM DCOM basis. Web services technologies J2EE.

\* Object Application Servers : Zope, Gemstone. BEA Weblogic. Enterprise Java Beans.

\* Content management systems: Plone.

\* Databases. MySQL. PostgreSQL, Sybase (including Open Client), Oracle (including Oracle Call Interface), DB2, Microsoft SQL Server, HP-Image, Raima DB-Vista. Btrieve. Various ISAM implementations.

\* Internet : HTML, HTTP, XML, CSS, XSLTs, AJAX. Applets, Servlets. TCP/IP sockets. FTP.

\* Operating systems. Linux ( Debian, Ubuntu,...). UNIX (HP-UX, IBM AIX, SunOS and Solaris, SCO), MS-Windows (NT, 98, 95, 3.x) including DLLs, DDE and COM basics. OS/2, HP MPE (HP3000 series), MacOS, OS9, OASYS, THEOS, CPM 68K, TOS (Atari), GEM, MS-DOS, CPM, ZEBRA, DOS (Tandy).

\* Packages : Lotus Notes. MS-Office. Xerox Xsis Analyst with Assistant. Infographics and pre-Press (Freehand, Illustrator, Photoshop, Quark Xpress, Linotype and Agfa utilities, and proprietary), animation, multimedia authoring (HyperCard, Toolbox, Director, and proprietary).

Artistic skills and competences

Play the lute musical instrument (strings).

Infography. Digital illustration. Multimedia and 3D authoring.

Other skills and competences

Standardization initiatives

2005 Profile of UML1 for UML2 Behavioral Modelling and Logical Components: in-house, Aspire  
Produce an adaptation of the adopted standard UML Profile for EDOC, of which I am coauthor, to enable the business

benefits of precise behavioural modelling in UML2, while protecting the existing investment in UML 1 tooling (Rational Rose 2002).

2000-2004 Unified Modeling Language 2.0 (UML 2.0) : Object Management Group

Participate as Data Access Technologies member, in the initial joint submission by Adaptive Technologies, Data Access

Technologies, Project Technology, Kinetium, Softlab and Siemens.

2000-2001 ebXML (XML for electronic business) : United Nations/CEFACT and OASIS

Participant in the elaboration of ebXML , the worldwide XML messaging standard - XML for Electronic Business, by the

United Nations Centre for Trade Facilitation and Electronic Business (UN/CEFACT) and the Organisation for the

Advancement of Structured Information Standards (OASIS). ebXML was adopted in May'2001. Endorsed by HL7, Open

Travel Alliance, Open Applications Group, Inc. (OAGI), RosettaNet, Covisint, Korea Institute for Electronic Commerce,

Global Commerce Initiative, Standards for Technology in Automotive Retail, and others.

2000-2001 UML for Enterprise Application Integration (EAI) : Object Management Group

Participate in the UML™ Profile for Event-based Architectures in Enterprise Application Integration (EAI) proposed standard

of the Object Management Group (OMG). In a joint submission by DSTC, Hitachi, IBM, Oracle Corporation, Rational

Software Corporation and Unisys. Supported by CBOP, Charlkes Schwab Co., Data Access Technologies, and IONA.

Ensure the alignment of EAI with EDOC and ebXML. Adopted Feb. 2002.

1999-2002 UML for Enterprise Distributed Object Computing (EDOC) : Object Management Group

Co-author the UML™ Profile for Enterprise Distributed Object Computing (EDOC) proposed standard of the Object

Management Group (OMG). Responsible for the UML Profile for the Component Collaboration Architecture (CCA). In a

joint submission by CBOP, Data Access Technologies, DSTC, EDS, Fujitsu, IBM, Iona Technologies, Open-IT, Sun

Microsystems, Unisys, and supported by Hitachi, SINTEF and NetAccounts. Ensure the alignment of EDOC with EAI and the

ebXML standard of the UN/CEFACT and OASIS.

Member of the EDOC Finalization Task Force, in representation of IOSYSnet and continuing previous work with Data Access

Technologies. EDOC was adopted by OMG as standard specification on November 16th, 2001.

2001 Java Specification Request #159 : Java Community Process

Participant in the Java Community Process, for a Java Specification for J2EE, based on EDOC CCA below.

1998 Business Object Component Architecture (BOCA) : Object Management Group

Contribute to the proof of concept and product development in support of the Business Object Component Architecture

(BOCA), proposed standard of the Object Management Group (OMG). In a joint submission by Data

	<p>Access Technologies, EDS, NIIP, SEMATECH, Inc., Genesis Development Corporation, Prism Technologies and IONA Technologies. The proposed standard was withdrawn in favor of what now is known as EDOC (above). 1996 Unified Modeling Language (UML 0.8 to 1.1) : Object Management Group Contribute to the proof of concept and first commercial implementation of what became the UML Object Constraint Language (OCL) , by Reich Technologies, co-holder of the UML Copyright notice. Validate and concept-proof early versions of modeling unification. Build Object Oriented repositories and modeling tools for the emerging standard. Object Management Group, Inc.; Hewlett-Packard Company; IBM Corporation; ICON Computing; i-Logix; IntelliCorp; Electronic Data Services Corporation; Microsoft Corporation; ObjecTime Limited; Oracle Corporation; Platinum Technology, Inc.; Ptech Inc.; Rational Software Corporation; Reich Technologies; Softeam; Sterling Software; Taskon A/S; Unisys Corporation</p>
<p>Driving licence(s)</p> <p><b>Additional information</b></p>	<p>No children. Relocation available for the right engagements.</p>
<p><b>Annexes</b></p>	<p>Lectures ·"Business Object Component Architecture", March 1999. BEA-Weblogic conferences in Research Triangle Park (NC) and Orlando (FL). ·"Boca Views : Drag Drop assembly of optimized clients", Jan 1999. For Electric Boat company and IBM. ·"OMT '95" L'Grand Messe. Reich Technologies, S.C.S, Brest, France.Dec 1995 ·"Object Orientation and Strategic Management" Business Innovation Center, Valencia Spain. 1993. ·"Interactive Multimedia" Il setmana de Cinema d'Animacio I Imatge electronica, Valencia, Spain. 1988. ·"Introduction to Computer Technology" Military base, Jaca, Spain. 1983.</p>

**EUROPEAN LANGUAGE LEVELS - SELF ASSESSMENT GRID**

		<b>A1</b>	<b>A2</b>	<b>B1</b>	<b>B2</b>	<b>C1</b>	<b>C2</b>
<b>U N D E R S T A N D I N G</b>	Listening	I can understand familiar words and very basic phrases concerning myself, my family and immediate concrete surroundings when people speak slowly and clearly.	I can understand phrases and the highest frequency vocabulary related to areas of most immediate personal relevance (e.g. very basic personal and family information, shopping, local area, employment). I can catch the main point in short, clear, simple messages and announcements.	I can understand the main points of clear standard speech on familiar matters regularly encountered in work, school, leisure, etc. I can understand the main point of many radio or TV programmes on current affairs or topics of personal or professional interest when the delivery is relatively slow and clear.	I can understand extended speech and lectures and follow even complex lines of argument provided the topic is reasonably familiar. I can understand most TV news and current affairs programmes. I can understand the majority of films in standard dialect.	I can understand extended speech even when it is not clearly structured and when relationships are only implied and not signalled explicitly. I can understand television programmes and films without too much effort.	I have no difficulty in understanding any kind of spoken language, whether live or broadcast, even when delivered at fast native speed, provided. I have some time to get familiar with the accent.
	Reading	I can understand familiar names, words and very simple sentences, for example on notices and posters or in catalogues.	I can read very short, simple texts. I can find specific, predictable information in simple everyday material such as advertisements, prospectuses, menus and timetables and I can understand short simple personal letters.	I can understand texts that consist mainly of high frequency everyday or job-related language. I can understand the description of events, feelings and wishes in personal letters.	I can read articles and reports concerned with contemporary problems in which the writers adopt particular attitudes or viewpoints. I can understand contemporary literary prose.	I can understand long and complex factual and literary texts, appreciating distinctions of style. I can understand specialised articles and longer technical instructions, even when they do not relate to my field.	I can read with ease virtually all forms of the written language, including abstract, structurally or linguistically complex texts such as manuals, specialised articles and literary works.
<b>S P E A K I N G</b>	Spoken interaction	I can interact in a simple way provided the other person is prepared to repeat or rephrase things at a slower rate of speech and help me formulate what I'm trying to say. I can ask and answer simple questions in areas of immediate need or on very familiar topics.	I can communicate in simple and routine tasks requiring a simple and direct exchange of information on familiar topics and activities. I can handle very short social exchanges, even though I can't usually understand enough to keep the conversation going myself.	I can deal with most situations likely to arise whilst travelling in an area where the language is spoken. I can enter unprepared into conversation on topics that are familiar, of personal interest or pertinent to everyday life (e.g. family, hobbies, work, travel and current events).	I can interact with a degree of fluency and spontaneity that makes regular interaction with native speakers quite possible. I can take an active part in discussion in familiar contexts, accounting for and sustaining my views.	I can express myself fluently and spontaneously without much obvious searching for expressions. I can use language flexibly and effectively for social and professional purposes. I can formulate ideas and opinions with precision and relate my contribution skilfully to those of other speakers.	I can take part effortlessly in any conversation or discussion and have a good familiarity with idiomatic expressions and colloquialisms. I can express myself fluently and convey finer shades of meaning precisely. If I do have a problem I can backtrack and restructure around the difficulty so smoothly that other people are hardly aware of it.
	Spoken production	I can use simple phrases and sentences to describe where I live and people I know.	I can use a series of phrases and sentences to describe in simple terms my family and other people, living conditions, my educational background and my present or most recent job.	I can connect phrases in a simple way in order to describe experiences and events, my dreams, hopes and ambitions. I can briefly give reasons and explanations for opinions and plans. I can narrate a story or relate the plot of a book or film and describe my reactions.	I can present clear, detailed descriptions on a wide range of subjects related to my field of interest. I can explain a viewpoint on a topical issue giving the advantages and disadvantages of various options.	I can present clear, detailed descriptions of complex subjects integrating sub-themes, developing particular points and rounding off with an appropriate conclusion.	I can present a clear, smoothly-flowing description or argument in a style appropriate to the context and with an effective logical structure which helps the recipient to notice and remember significant points.
<b>W R I T I N G</b>	Writing	I can write a short, simple postcard, for example sending holiday greetings. I can fill in forms with personal details, for example entering my name, nationality and address on a hotel registration form.	I can write short, simple notes and messages. I can write a very simple personal letter, for example thanking someone for something.	I can write simple connected text on topics which are familiar or of personal interest. I can write personal letters describing experiences and impressions.	I can write clear, detailed text on a wide range of subjects related to my interests. I can write an essay or report, passing on information or giving reasons in support of or against a particular point of view. I can write letters highlighting the personal significance of events and experiences.	I can express myself in clear, well-structured text, expressing points of view at some length. I can write about complex subjects in a letter, an essay or a report, underlining what I consider to be the salient issues. I can select a style appropriate to the reader in mind.	I can write clear, smoothly-flowing text in an appropriate style. I can write complex letters, reports or articles which present a case with an effective logical structure which helps the recipient to notice and remember significant points. I can write summaries and reviews of professional or literary works.