



CROZ COURSE CATALOGUE

Aware of importance of fast knowledge acquisition and constant changes in the IT world, we pay special attention to education. During the years of working on development projects, we came to realize that precisely the ability of fast new knowledge acquisition and continuous education is one of the most important factors in the success of an IT company. In order to help our clients elevate their level of knowledge and make the progress of technological changes easier to keep up with, we initiated a series of our own education services - from in advance prepared catalogue courses, thorough customized workshops to, finally, consulting on real-life projects. We are particularly proud of our consultants and trainers constantly being involved in development projects where they continuously gain new knowledge and experiences which they then can pass onto others through courses and consultations.

In our catalogue we have a series of courses concerning technologies and methodologies, and which we ourselves produced. The most commonly held are specialist Java courses prepared by our experts.

The courses can be held at yours or our location, respectively. The courses will be held upon request and according to arrangement with each individual client (date and location). The course contents can be specially customized to client's requests.

Let us note how on our long list of clients using our educational services, there are numerous references of clients from the region as well. Great dedication of our trainers and consultants is best seen through the high grades achieved at the end of the course.

1. CROZ COURSES

	Course	Code	Duration
Basic Development Education			
1	<p>Object oriented programming and Java programming language - part 1</p> <ul style="list-style-type: none"> • Introduction to basic object oriented programming principles • Write, compile, and run a simple Java program • Write, compile, and run a simple Java program using development tool Eclipse • Basic elements of Java programming language • Operators and associations • Access modifiers and other modifiers • Type conversion (casting) • Flow control (conditions and loops) • Exceptions • Classes and objects • Implementation hiding • Polymorphism, interfaces and abstract classes • Inner classes • Multithreading • java.lang.* package details • Object collections • Recommendations for working in Eclipse 	CROZJava1	5
2	<p>Object oriented programming and Java programming language - part 2</p> <p>GUI application development in Java – Basics:</p> <ul style="list-style-type: none"> • GUI components • Layout Managers • Events • Java I/O (input/output) subsystem 	CROZJava2	3
3	<p>Object J2EE, SERVLET and JSP programming</p> <p>1. Introduction</p> <ul style="list-style-type: none"> • Introduction to Java Servlet technology • Introduction to Java Server Pages technology • Basic terms and insight into web applications and HTTP protocol 	CROZJava3	10

	<p>2. Java Servlet Technology</p> <ul style="list-style-type: none"> Servlet Operation Model Structure of a web application Servlet Container Model Error management Session management Introduction to secure web application development Multithreaded Servlet development <p>3. Java Server Pages (JSP) Technology</p> <ul style="list-style-type: none"> Introduction to JSP Model Advanced JSP Model concepts Reusable web components Usage of JavaBeans technology Creating custom tags Custom tag library development <p>4. Design patterns and Filters</p> <ul style="list-style-type: none"> Introducing several basic design patterns crucial to web application development Using filters <p>5. Additional subjects</p> <ul style="list-style-type: none"> Installation of Apache Tomcat v5.x Servlet Container Brief introduction to XML (for purposes of better understanding configuration files) 		
4	<p>Rich Internet Application Development in Adobe Flex</p> <p>Adobe Flex is a platform for developing so-called Rich Internet Applications. This course deals with important issues when embarking on application development with Flex. It starts with the basics of ActionScript and MXML and continues with a more detailed discussion of how to work with visual components and communicate with the application's server side. Second part is about working with business intelligence module and moreover about techniques of drawing those fancy graphs. Last part of the course deals with some of the more important Flex extensions in the form of external class libraries and advanced topics such as organization of unit-tests and Flex JSP taglib.</p>	CROZFlex	5
Advanced Development Education			
5	<p>Advanced concepts of Java programming</p> <ul style="list-style-type: none"> Advanced JDBC Declarative transaction management JMS O/R mapping Scheduling 	CROZJava4	5

	<ul style="list-style-type: none"> • Unit testing • Security • Logging and Auditing 		
6	<p>Integral approach to Software Development</p> <p>Software development process is a far wider concept than mere programming. Diverse and apparently unconnected disciplines and activities arranged and used in the right way, facilitate the development process, assist in planning and in the end affect the successful outcome of the project itself.</p> <p>The workshop will provide the explanations for the concepts such as source code repository, issue tracker, snapshot and integration build, developmental, staging, test and production environment, build and test automation, as well as for the connections and interactions between them.</p>	CROZBRM	1
7	<p>Spring Framework course</p> <p>Spring Framework is a library set which considerably eases application development in the Java programming language, of standard or enterprise applications alike. Spring Framework has introduced a couple of novelties into the Java and J2EE world, such as Inversion of Control (IoC) and Dependency Injection (DI) principles, Aspect Oriented Programming (AOP) and much more. This course gives a complete overview of Spring Framework, from its basic to more advanced features.</p> <p>Basic Java and J2EE technology knowledge required.</p>	CROZSF	5
8	<p>Web services - concepts, development, implementation</p> <p>The purpose of this course is for the participants to get acquainted with the concepts of Web Services as well as with how to implement and use them. The course alongside the theory offers plenty of practical examples and exercises.</p> <p>Content:</p> <ul style="list-style-type: none"> • Introduction to Web Services (service and web service as a term, examples, types and usage of web services) • Set of basic standards for realization of W3C Web Services (XML, SOAP, WSDL, UDDI) • Transport protocols for Web Services (HTTP, JMS) • Creating Web Services (development principles, examples and exercises) • Creating clients for Web Services (client development 	CROZWS	3

	<p>principles, examples and exercises)</p> <ul style="list-style-type: none"> • Deployment of Web Services • "Quality of service" Web Service standards (security, transactions, basic profile) • The role of Web Services in the SOA world (SOA, ESB) 		
Project management			
9	<p>Basic project management education</p> <p>The purpose of this course is to make project managers competent in efficient communication management, budget planning and other important project-related details. Besides theoretical knowledge of project structure, documentation and so on, the course covers practical segments of dealing with the conflicts as well as meeting management.</p> <p>There are two options for course duration, dependent to the number of exercises and examples performed (according to client needs).</p>	CROZPM1	3 or 5
10	<p>Short overview of project management methodology, skills and execution</p> <p>The course is a short version of the course CROZPM1 intended for project team members. Special attention is given to project documentation and planning.</p>	CROZPM2	2,5
Business Modeling			
11	<p>Introduction to Business Modeling</p> <p>The course serves as an introduction to the business modeling process and presents short overviews of the following:</p> <ol style="list-style-type: none"> 1. Business process definition 2. Business processes and organization structure 3. Methodologies and tools for change implementation 4. BPM: project approach 5. Process modeling 	CROZBM	2
12	<p>Essentials of WebSphere Business Modeler</p> <p>The course deals with business process modeling and presents short overviews of the following:</p> <ul style="list-style-type: none"> • SOA and business process modeling • Demonstration of WebSphere Business Modeler tool • WebSphere Business Modeler – typical work assignments 	CROZWBM	3

Administration			
13	<p>IBM WebSphere Application Server Administration</p> <p>IBM Websphere Application Server V6 course is intended for administrators. Upon completing the course, participants will be able to install, configure and service IBM application server on their own. At the beginning of the course they will learn about the application server architecture and WebSphere products. During the course participants will install WebSphere Application Server and IBM HTTP Server by themselves. They will learn how to define the data source, configure and install applications using graphical interface or command line (wsadmin) as well as how to fix problems in WAS environment.</p>	CROZWAS	2
Tivoli Courses			
14	<p>Introduction to IBM Tivoli Monitoring v.6.x</p> <ul style="list-style-type: none"> • Purpose and functions of monitoring tools • Learning about ITM v 6.x features • Monitoring system architecture • TEP GUI Usage • User administration, view configuration 	CROZT1	2
15	<p>Advanced IBM Tivoli Monitoring course</p> <ul style="list-style-type: none"> • Installation of ITM v 6.x on the MS Windows platform • Configuration of monitoring agents • Configuration of monitoring providers • Configuration of Tivoli Data Warehouse • Creating monitoring situations and policy • Creating custom monitors 	CROZT2	3
16	<p>Introduction to IBM Tivoli Composite Application Manager for RTT v.6.1 – workshop</p> <ul style="list-style-type: none"> • Purpose and functions of ITCAM for RTT tool • User interface • Demonstration of monitoring components • Creation of robot scripts • Integration with ITM 6 	CROZT3	2
17	<p>Introduction to IBM Tivoli Composite Application Manager for RT v.6.2 - workshop</p> <ul style="list-style-type: none"> • Purpose and functions of ITCAM for RT tool • User interface • Monitoring components • Robot scripts creation 	CROZT4	2

18	<p>Tivoli Application Dependency Discovery Manager – workshop</p> <ul style="list-style-type: none"> • Purpose and functions of CMDB • Tivoli CCMDB architecture • Functions of TADDM • Sensor mode • Configuration in different environments • Reports and integration 	CROZT5	2
19	<p>Introduction to IBM Tivoli Composite Application Manager for WebSphere – workshop</p> <ul style="list-style-type: none"> • Purpose and functions of ITCAM for WAS tool • Monitoring solution architecture • User interface and data displays • Configuration • Report generation • Integration with other monitoring tools 	CROZT6	3
Service Oriented Architecture			
20	<p>Sustainable SOA</p> <p>The objective of this course is to demystify this growingly popular architectural concept by presentation and analysis of key principles, architecture and methodology employed during implementation of SOA solutions in an enterprise environment. Through interactive presentations, the course attendees will learn about basic principles of service orientation, SOA reference architecture layer description, process automation in SOA environments, SOA methodological support and SOA Governance. The course will also provide explanations on how Complex Event Processing and Event Driven Architecture relate to service oriented architecture.</p>	CROZSOA	2
Security			
21	<p>Threats and best ways of protecting confidential data on your personal electronic devices</p> <p>Do you own any electronic documents or information on secrecy of which your reputation, workplace or the future of your company depends?</p> <p>Are you in finance, sales, marketing or management and your portable computer is loaded with confidential agreements, tables with financial data while the information you store on network resources or send over the Internet is extremely sensitive? Confidential data you keep on your potable computers, mobile phones, USB disks or similar devices, and the data you send via the Internet or intranet</p>	CROZS1	1

	<p>are exposed to a variety of threats.</p> <p>Get to know what the threats are and learn in the easy way how you, yourself, can protect your data and therewith your company and your job as well.</p>		
Configuration Management			
22	<p>Use of Rational Team Concert</p> <p>The purpose of this two-day course is to enable programmers through practical examples to be self-sufficient in dealing with all of the tool's functions.</p> <p>Course agenda:</p> <ul style="list-style-type: none"> • introduction to RTC architecture • development process with RTC • working with work items • configuration management with RTC • integrated build • project planning with RTC • project progress tracking with RTC • reporting 	CROZRTC	2
Soft Skills			
23	<p>Presentation Skills and Public Performance Training</p> <p>Communication with groups of people and presentation skills make one of the elementary components of business literacy and business success. Good presentation of an idea will make that idea appealing. Bad presentation of an idea, on the other hand, can permanently halt its realization. Education without a high-quality trainer, who is not capable of knowledge transfer in a structured and effective manner, can in no way be of quality.</p> <p>How to present a product so as to be accepted by the target group?</p> <p>Training attendees will learn both in theory and practice how to:</p> <ul style="list-style-type: none"> • get over your fear of public performance • make a desired impression in the first 90 seconds • communicate with the audience • categorize presentation's contents in a quality manner • adapt your presentation to the needs of the audience • answer unpleasant questions • effectively use PowerPoint • control all segments of non-verbal communication 	CROZPV	2