

Be sure to check out our [Blogs](#) and discover all the new Free Training!



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## Newsletter for Computer IT Education, Training & Tutorial Resources

**\*\*\* ISSUE #62 - December 2006 \*\*\***

**[Intelligentedu.com](http://www.intelligentedu.com)**

**formerly [www.intelinfo.com](http://www.intelinfo.com)**

**Please Update Your Bookmarks & Web Links!**

This Newsletter is only sent to its subscribers  
and is available on the web at

<http://www.intelligentedu.com/newsletter62.html>

Newsletter Archives are here:

<http://www.intelligentedu.com/newsletter.html>

Subscribe and unsubscribe [instructions are at the end](#).

Please forward this newsletter to all your friends  
and associates who might be interested!

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## **1) Editor's Greeting:**

Hello everyone, and welcome to our new subscribers!

This is the December 2006 issue (#62) of our free monthly newsletter for Computer IT Education, Training, & Tutorial Resources providing you with the latest Free online IT Training Resources that we have recently discovered and researched. This newsletter is free to anyone subscribing ([instructions](#) at bottom, no username/password is needed). To access our member site, however, you do need a user name and password - registering as a member of [Intelligentedu.com](http://Intelligentedu.com) costs \$15 for two months, for more information please see [Become a Member of Intelligentedu.com](#).

My desire is that these free resources will help you with your computer education and training and are tools to advance your IT career. Our main mission is the training of those less fortunate who are seeking to become computer literate, both technically and from a user's perspective.

In this issue we describe and link to a total of 105 computer, IT and programming

learning and tutorial web sites. By means of this email newsletter, you have knowledge of and access to these sites before our web site visitors do.

**\*\*\*Current News \*\*\***

Please take a look at our [Blogs](#), We post on a daily basis to these blogs all **New Free Training and Tutorial Resources**, as we discover and evaluate them, here are the links:

[Best New Free Technical Computer and Development Training Sites](#)

[Free Computer, Technical, and IT Books](#)

[Our 3 Blogs for EducationOnlineForComputers.com](#)

- [Web Development](#) - [Adobe & Macromedia](#) - [Microsoft Office Applications](#)

To get your [Free Computer Training updates via RSS](#), please cut and paste this urls into your RSS reader:

<http://www.intelligentedu.com/blogs/feed/>

**Please Visit Our New [Free Training & Tutorial Search Engine](#)** - this new website at [www.EdComp.com](http://www.EdComp.com) is a search engine with a large database of over 150,000 free IT education and training web resources, with another 70,000 free resources reserved exclusively for paid members. If you're an Intelligentedu.com Member, go to [members.Edcomp.com](http://members.Edcomp.com) to access the special members' page for searching over 220,000 free training web resources.

All of the links for these 220,000 free web resources have been validated, so you should not get any broken ones. We are also caching all previous results pages to help you find all the free training content and materials you need and are looking for. So check out our new free IT training search engine now, and if you'd like to, please provide me your feedback. Again, the url is: <http://www.edcomp.com/>.  
Thank you.

For your convenience, this newsletter is also available to subscribers in HTML format at this special url: [http://www.intelligentedu.com/current\\_news.html](http://www.intelligentedu.com/current_news.html)

I wish you the best with your computer studies and learning.

Warm Regards,  
Scott Turton  
Newsletter Editor and Webmaster  
[scott\\_turton@intelligentedu.com](mailto:scott_turton@intelligentedu.com)  
<http://www.intelligentedu.com/>

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**"Learn New Skills and Increase Your Earning Power  
- With Free Online Computer Training!"**

\*\*\* [Become a Member of Intelligentedu.com](http://www.intelligentedu.com) \*\*\*

Our Members' Site contains the web's best computer and IT training resources and tutorials. This content is individually linked and presented in a way to expedite and facilitate your IT learning experience. We have done all the web research and presentation work for you so you can concentrate solely on your computer training. For short FAQ Answers, please see the end of this newsletter.

The total price to join as a member is only \$15.00 total for 2 months, \$25 for 4 months, \$34 for 6 months, or \$59 for a whole year. The funds generated will assist us to help all those seeking IT education and application development training. Here's the link to see what's available on our member's site and to sign up:  
<http://www.intelligentedu.com/sign-up/index.html>.

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**EdComp.com:**  
<http://www.edcomp.com/>

This is our new free computer and IT education and training search engine housing over 220,000 free training internet resources! Just type in a topic you're looking for and get tons of great web resources instantly. These search results are much better than the big search engines, like google. You can also check out our predefined search results page giving you tons of free training resources:  
<http://www.edcomp.com/predefined.htm>.

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**EducationOnlineForComputers.com:**  
<http://www.educationonlineforcomputers.com>

Our new software application and office training and tutorial site, EducationOnlineForComputers.com, is now up and running. We give you Free access to hundreds of Free Training and Tutorials covering Microsoft Office, Flash, Photoshop, Dreamweaver and FrontPage. We also provide you a member site for the best available online software application training. You can sign up for the Free Newsletter here:

[http://www.educationonlineforcomputers.com/optin\\_newsletter.html](http://www.educationonlineforcomputers.com/optin_newsletter.html)

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### **-> Here are Your 3 Rewards for Subscribing to this Newsletter <-**

\*\*\* Free Online IT Training Materials for Subscribers \*\*\*

This section of our site contains over 2,000 free IT, computer and programming training resource links:

[http://www.intelligentedu.com/free\\_it\\_training\\_materials\\_and\\_books.html](http://www.intelligentedu.com/free_it_training_materials_and_books.html)

\*\*\* Free Online Computer Training and Tutorial Resources \*\*\*

Containing over 8,000 free IT training and tutorial resources, this section of our site is available only to our newsletter subscribers and web site members:

[http://www.intelligentedu.com/newly\\_researched\\_free\\_training.html](http://www.intelligentedu.com/newly_researched_free_training.html)

\*\*\* Free e-Book: "Understanding Computer Security" \*\*\*

Our new e-book contains the best information from U.S. government agency computer security papers and guides and presents it in a coherent and understandable manner. My hope is that this e-book will make computer security

easier to learn. Click here to receive your Free Copy:

[http://www.intelligentedu.com/Understanding\\_Computer\\_Security.zip](http://www.intelligentedu.com/Understanding_Computer_Security.zip) (553 kb).

When unzipped it is a windows executable.

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## 2) The Best New Free I.T. Training & Tutorial Sites:

This section of our newsletter contains the best new free IT training and tutorial sites that we have found and researched in the last few weeks. These resources will be added to our Free IT Training & Courses page at

<http://www.intelligentedu.com/cat1.html>, our Free IT Tutorials and Guides page at

<http://www.intelligentedu.com/cat2.html>, or to our [members' site](#).

### EdComp.com:

<http://www.edcomp.com/>

This is our new Free computer and IT education, training and tutorial search engine housing over 150,000 free training internet resources! Just type in a topic you're looking for and get tons of great web resources instantly. We believe these results are better than the big search engines, like google.

You can start searching right now using this form:

Here are a few search results to get you started:

#### Web Development:

<http://www.edcomp.com/results/web+programming.html>

<http://www.edcomp.com/results/web+development+tutorial.html>

<http://www.edcomp.com/results/web+tutorial.html>

<http://www.edcomp.com/results/css.html>

### **Java Learning Resources:**

<http://www.edcomp.com/results/java+tutorial.html>

<http://www.edcomp.com/results/java+2.html>

<http://www.edcomp.com/results/java+servlets.html>

<http://www.edcomp.com/results/j2ee+tutorial.html>

### **Linux Tutorials:**

<http://www.edcomp.com/results/linux.html>

<http://www.edcomp.com/results/linux+tutorials.html>

<http://www.edcomp.com/results/linux+programming.html>

<http://www.edcomp.com/results/linux+.html>

### **XML Tutorials:**

<http://www.edcomp.com/results/xml.html>

<http://www.edcomp.com/results/xml+tutorials.html>

<http://www.edcomp.com/results/xslt.html>

<http://www.edcomp.com/results/xsl+tutorial.html>

<http://www.edcomp.com/results/xpath.html>

### **C++ Tutorials:**

<http://www.edcomp.com/results/c++-tutorials.html>

<http://www.edcomp.com/results/c++.html>

<http://www.edcomp.com/results/c++-programming.html>

### **A+ Tutorials and free practice questions:**

<http://www.edcomp.com/results/a+.html>

<http://www.edcomp.com/results/comptia+a+.html>

<http://www.edcomp.com/results/comptia+a+-study+guides.html>

<http://www.edcomp.com/results/a+-tutorials.html>

### **iNet+ Tutorials:**

<http://www.edcomp.com/results/inet+.html>

<http://www.edcomp.com/results/i-net+.html>

### **Network+ Tutorials:**

<http://www.edcomp.com/results/network+.html>

**MCSE preparation:**

<http://www.edcomp.com/results/mcse.html>

<http://www.edcomp.com/results/70-290.html>

<http://www.edcomp.com/results/70-291.html>

<http://www.edcomp.com/results/70-293.html>

<http://www.edcomp.com/results/70-294.html>

<http://www.edcomp.com/results/70-296.html>

<http://www.edcomp.com/results/70-297.html>

**.Net:**

<http://www.edcomp.com/results/dotnet.html>

<http://www.edcomp.com/results/dot-net.html>

<http://www.edcomp.com/results/dotnet+tutorials.html>

**C#:**

<http://www.edcomp.com/results/c#.html>

<http://www.edcomp.com/results/csharp.html>

<http://www.edcomp.com/results/c#+tutorial.html>

<http://www.edcomp.com/results/csharp+tutorial.html>

**Windows 2003:**

<http://www.edcomp.com/results/windows+2003.html>

<http://www.edcomp.com/results/windows+server+2003.html>

**Intelligentedu.com paid Member-only search with 70,000 more free resources:**

<http://members.edcomp.com/index.aspx>

If you forgot your password please go here to retrieve it:

<http://www.intelligentedu.com/amember/member.php>

Visit [TrainingByEmail](#) to receive **Free Training for C#, ASP.Net, SQL, Word, Excel, and Outlook**, via your email every week! We will send out a new training in the topic of your choosing every week. You can then save this, print it out, or delete it all at your convenience. And you can't beat the price, FREE!

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### **[Intelligentedu Online Library of Training Courses](#)**

This is another one of our new Free training and tutorial sites, providing over 450 free online IT tutorials. Tutorials range from entry level training on using word processors through to advanced techniques in programming, web development, database design, and network routing. In-depth courses are also available at low cost.

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### **[Top 14 Digg Programming Posts for the Month](#)**

Here are what I judge to be the top 14 [Digg.com](#) submissions for the last month, in the programming category. These are excellent free training and learning resources that will teach you techniques for the following programming technologies: Ruby on Rails, MySQL, PHP, Ajax, Rails, Python, Eclipse, C, and C++.

- [Top 12 Ruby on Rails Tutorials](#)
- [A MySQL Cheat Sheet](#)
- [Are You a Programmer? Myers-Briggs Personality Type Test](#)
- [6 ways to make PHP Scripts lightning fast!](#)

- [Crossing borders: Ajax on Rails](#)
  - [Discover the Ajax Toolkit Framework for Eclipse](#)
  - [Python Tutorial Index Page](#)
  - [AJAX Tutorials - A comprehensive List \(over 130 listings\)](#)
  - [Database-enabled AJAX with PHP...](#)
  - [Top 20 Programming Languages](#)
  - [The Mother of All Computer Science Cheat Sheets!](#)
  - [Teach Yourself C in 24 Hours](#)
  - [Teach Yourself C++ in 21 Days](#)
  - [1043 Programming Exercises](#)
- 

## [Linux Tutorials from LinuxBasics.org](#)

[LinuxBasics.org](#) bills itself as "The online community that helps people to get Linux installed and running." This Linux learning site provides [tutorials](#) and [links](#) to sites that offer information needed to install and productively use Linux. They also run a friendly [mailing-list](#) and an [IRC-channel](#) for questions you will have when you start using Linux.

They also offer a free Linux course, called [An Introduction to Linux Basics](#), that is for those who want to understand how to install and administer the basics of a Linux computer system. This class started on October 19, 2006, but you can still register and participate. Even advanced Linux users can join the class, as they will be able to dig deeper into some areas they always wanted to know more about. The course uses [LBook: An Introductory Guide to Linux Basics](#) as the course book and study guide, which I have detailed in [this blog post](#).

## **[Home and Learn's PHP Tutorials](#)**

If you need to learn how to use and code PHP in your web pages and sites, Home and Learn's [Beginners PHP Tutorials](#) is a great place to start. These cover all what you need to start coding with PHP immediately. Many PHP areas are covered here, including Conditional Logic, HTML Forms, Loops, Arrays, String Manipulation, Functions, Security, Working with Files, Date and Time, PHP and MySQL, and User Authentication. At the end you are encouraged to put your PHP knowledge to work by creating your own Survey and Forum.

### **PHP Topics to Learn:**

1. [Introduction](#)
  2. [Getting Started](#)
  3. [Conditional Logic](#)
  4. [HTML Forms](#)
  5. [PHP Loops](#)
  6. [Arrays and PHP](#)
  7. [String Manipulation](#)
  8. [Create your own Functions](#)
  9. [Security Issues](#)
  10. [Working with Files](#)
  11. [Date and Time](#)
  12. [PHP and MySQL](#)
  13. [User Authentication](#)
  14. [Build your own Survey](#)
  15. [Build your own Forum](#)
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## [Web Design HTML Course and CSS Tutorials](#)

Homeandlearn.co.uk provides some excellent free computer training, including this [Web Design Course](#) and these [Cascading Style Sheet Tutorials](#). These course lessons and tutorials will teach you how to create web pages using HTML and CSS. To begin, first read their [Introduction to the Web Design Course](#) to see more about what you will learn, and to download their free HTML editor.

Web Design HTML and CSS Topics:

- [A first Web Page](#)
- [Images and the Web](#)
- [HTML Text Formatting](#)
- [Adding Links with HTML](#)
- [HTML Tables](#)
- [HTML Forms](#)
- [HTML Frames](#)
- [CSS - How to Set Up a Style Sheet](#)
- [CSS - Formatting Text with Style Sheets](#)
- [Stylesheet Reference](#)

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## [Free Study Guide for Network+ Certification](#)

Here is a well written free training work by Charles M. Kozierok, this one is an excellent [study guide](#) for the **Network+ certification exam**. This free online training guide will prepare you for the CompTIA Network+ Technology Certification Exam N10-002. Each chapter also offers a good number of practice questions and corresponding explained answers.

- [Introduction and "Guide to the Guide"](#)
- [Chapter 0000: Network Basics](#)
- [Chapter 0001: LAN Cabling](#)
- [Chapter 0010: ISO, OSI, and IEEE Standards](#)

- [Chapter 0011: Network Hardware](#)
  - [Chapter 0100: Network Protocols](#)
  - [Chapter 0101: TCP/IP](#)
  - [Chapter 0110: Network Operating Systems \(NOS\)](#)
  - [Chapter 0111: Wide Area Networking](#)
  - [Chapter 1000: Security in the Real World](#)
  - [Chapter 1001: Networking in the Real World](#)
  - [Chapter 1010: 144 Real World Exam Questions](#)
  - [Appendix A: Answers to Success Questions and Real World Exam Questions](#)
  - [Appendix B: Decoding Math](#)
  - [Appendix C: Subnet Masks](#) (Parts: [1](#) [2](#) )
  - [Appendix D: Graphics](#) (Parts: [1](#) [2](#) [3](#) [4](#) [5](#) )
  - [Glossary](#)
- 

## **[Rebol Programming Tutorial with 9 Complete Programs](#)**

This Rebol Tutorial, titled '[Rebol Programming For The Absolute Beginner](#)', demonstrates how to develop useful software applications using Rebol, a powerful, yet simple and flexible, programming language with which you can easily work with text, graphics, and sounds. Rebol provides simple methods to save, retrieve, and share data across all types of hardware, networks, and the Internet. It works with common user interfaces and data types with no problems while allowing developers to easily build graphic interfaces to input and return data. For these reasons it is an excellent choice for those just beginning to learn how to program. This tutorial will demonstrate how to program computers to do useful things, without a long learning curve. For experienced programmers, take a look at the the example applications and check out Rebol's compact code and cross-platform usability. The code for 9 complete, example applications, along with screen shots and executables, is available [here](#).

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## [VB.NET Programming Course Tutorials](#)

This Home and Learn computer course is an introduction to [Visual Basic.NET programming](#) for beginners. This course assumes that you have no programming experience whatsoever. It's a lot easier than you think, and can be very rewarding.

You don't need to buy any software for this course. You can use the new Free Visual Basic 2005 Express Edition from Microsoft. You can [download it here](#) (note the link on the site is broken, so get it here if you need it.) Visual Basic .NET Programming Topics:

1. [Getting Started](#)
  2. [Your First Code](#)
  3. [Conditional Logic](#)
  4. [VB .NET and Loops](#)
  5. [Adding Menus to a Form](#)
  6. [Debugging your Code](#)
  7. [VB .NET and Arrays](#)
  8. [String Manipulation](#)
  9. [Working with Text Files](#)
  10. [Functions and Subs](#)
  11. [Events in VB .NET](#)
  12. [VB NET Classes and Object](#)
  13. [VB .NET and Forms](#)
  14. [VB .NET and Databases](#)
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### 3) New Free Computer IT Books, Publications & Book Sites:

Some of these web resources will be added to our Free IT Books page at [http://www.intelligentedu.com/free\\_computer\\_books.html](http://www.intelligentedu.com/free_computer_books.html) and some will be added to our [members site](#).

#### Many Technical Ebooks in Many Areas

This is an **ebook site repository** hosting many freely available downloadable ebooks, most are in pdf format. These cover many technical topics as listed below.

#### Ebook Topics and Categories:

- Perl
- Web Database Guide
- Java Programming
- Java Web Services
- Java 2 Network Security
- Java 2 Certification
- Javascript
- PHP
- Apache Server - PHP
- MySQL
- MySQL and PHP
- Linux
- Linux Command Reference
- Linux Firewalls
- Linux Security
- Linux Networking
- FreeBSD
- Solaris System Administration
- Unix
- Photoshop Techniques
- Dreamweaver
- Flash MX
- Networking
- Snort
- Illustrated TCP IP
- TCP/IP Manual
- Data and Voice Networking
- Cisco IP Routing Fundamentals

- CISCO Study Guide Exam 640-504
  - CCNP Routing Cheatsheets (BSCN) Exam 640-503
  - Cisco CIT Exam 640-506
  - CCNA 2.0 Study Guide (640-507)
  - 640-607 CCNA 3.0 Study Guide
  - CCNP - BSCN Cramsession
  - Cisco CCNP Switching
  - Cheatsheets CCNP Routing (BSCN)
  - Cisco CCIE Fundamentals Network Design
  - Cisco CCIE Practice Exam 2 Questions and Answers
  - Cisco Designing Network Security
  - Cisco IOS 11.3 Managing Traffic and Access
  - MCSE
  - Windows to Linux
- 

## [The Little Book of Ruby](#)

The PDF eBook, [Little Book Of Ruby](#), will take you through the fundamentals of **Ruby programming**. Beginning with the basics (strings, numbers, objects and methods) it rapidly moves on to tell all you need to know to form your own class hierarchies, use arrays, hashes, iterators, modules, mixins and much more. You can follow this step-by-step tutorial to Ruby programming, reading the text chapter by chapter and running sample programs. Or, you can jump right in and try running some of the programs in whatever order suits your mood, and then refer back later for explanations. This book has no monolithic applications – just small, self-contained, sample programs enabling one to skip around, chapter to chapter if desired. All the programs in this ebook can be downloaded as a Zip archive, and they are grouped by directories – one for each chapter. This ebook in pdf format has 10 Chapters, a total of 85 pages, and 565kb. [Download The Little Book of Ruby](#).

**Ruby** is a cross-platform interpreted language created by Yukihiro Matsumoto ('Matz') and was first released in 1995. It has much in common with scripting languages such as Perl and Python, but its object orientation is more thorough than those languages. At [ruby-lang.org](http://ruby-lang.org), you can download the latest version of Ruby. The easiest way to install Ruby on your windows PC is to use the [Ruby](#)

[Installer for Windows](#), which includes the SciTE code editor. Much of the excitement surrounding Ruby is because of the web development framework called **Rails** – well known as ‘**Ruby On Rails**’. The Little Book of Ruby does not cover the special features of Rails, but it gives you a basis upon which to understand Rails code and write Rails applications.

### **Table of Contents:**

- Chapter One : Strings and Methods
- Chapter Two: Classes and Objects
- Chapter Three: Class Hierarchies
- Chapter Four: Accessors, Attributes, Class Variables
- Chapter Five: Arrays
- Chapter Six: Hashes
- Chapter Seven: Loops and Iterators
- Chapter Eight: Conditional Statements
- Chapter Nine: Modules and Mixins
- Chapter Ten: Saving Files, Moving On...

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### **[The LBook: An Introductory Guide to Linux Basics](#)**

[LinuxBasics.org](#) offers a free online course, called [An Introduction to Linux Basics](#), that introduces the student to the Linux operating system and how to productively use it. This course uses as its course book [LBook: An Introductory Guide to Linux Basics](#), which is an edited version of “[Introduction to Linux: A Hands on Guide](#)” by Machtelt Garrels. The class started on October 19, however you can still join the list, introduce yourself and start with the first week’s section. You will not be rushed to catch up to where others are. You are free to discuss wherever you are in the guide or other Linux-related matters on the list. Relevant questions and comments may then be discussed on the mailing list; so you will need to join that in order to participate. It is anticipated that questions will range from very basic to more advanced. Here are the complete chapters of the free online Linux book being used by this course:

- [Introduction](#)

- [Chapter One - What is Linux?](#)
- [Chapter Two - Quick Start](#)
- [Chapter Three - About Files and the File System](#)
- [Chapter Four - Processes](#)
- [Chapter Five - I/O Redirection](#)
- [Chapter Six - Text Editors](#)
- [Chapter Seven - Home Sweet /home](#)
- [Chapter Eight - Printers and Printing](#)
- [Chapter Nine - Fundamental Backup Techniques](#)
- [Chapter Ten - Networking](#)
- [Chapter Eleven - Sound and Video](#)
- [Appendix A. Where to go from here?](#)
- [Appendix B. DOS versus Linux commands](#)
- [Appendix C. Shell Features](#)
- [Appendix D. GNU Free Documentation License](#)
- [Glossary](#)

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## **[Free Preparation and Study Guide for Security+ Certification](#)**

[CertiGuide.com](#) provides free preparation and reference guides for studying for 5 certification exams. These certification preparation and study guides are complete and will greatly increase your chances of passing the certification exam.

Here is their [CertiGuide](#) to [Security+](#), for Exam SY0-101, which is for the [CompTIA Security+ Certification](#).

- [Introduction and "Guide to the Guide"](#)
- [Chapter 0: Read.Me](#)
- [Chapter 1: General Security Concepts](#)
- [Chapter 2: Communication Security](#)
- [Chapter 3: Infrastructure Security](#)
- [Chapter 4: Basics of Cryptography](#)
- [Chapter 5: Operational/Organizational Security](#)
- [Chapter 6: Practice Exam](#)

- [Chapter 7: Practice Exam Answers](#)
  - [Glossary](#)
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## **[Best Free Study Guide for A+ Hardware and Operating Systems](#)**

Charles M. Kozierek has edited and adapted this excellently written **Guide to A+ Core Hardware Technology and A+ Operating Systems Technology**, or what he calls [A+ 4 Real](#). This free training guide is written for the [CompTIA A+ Operating Systems Technology Exams 220-301 and 220-302](#). This A+ (A Plus) study and preparation guide is one of the best freely available online training books for the A+ certification on the web today.

- [Introduction and "Guide to the Guide"](#)
- [Chapter 1: What are Operating Systems and How Do They Work?](#)
- [Chapter 2: Windows XP New Category View](#)
- [Chapter 3: Windows XP Command Line Interface \(CLI\)](#)
- [Chapter 4: Diagnosing and Troubleshooting in the Windows OS](#)
- [Chapter 5: The Linux Operating System](#)
- [Chapter 6: The Graphical Interface of the Linux OS](#)
- [Chapter 7: History, Installing and Use of the MacOS](#)
- [Chapter 8: Motherboards](#)
- [Chapter 9: Graphic Cards](#)
- [Chapter 10: The Small Computer System Interface, SCSI](#)
- [Chapter 11: Power Supplies, Surge Protection and Uninterruptible Power Supplies](#)
- [Chapter 12: Material Safety: a Personal and Technical Report on Hazardous Material Handling](#)
- [Chapter 13: Basic Networking Terminology](#)
- [Chapter 14: Networks](#)
- [Chapter 15: Wireless LANs](#)
- [Chapter 16: Network Load Balancing and Clustering](#)

## **[Free Comprehensive Guide to A+ Hardware](#)**

Charles M. Kozierok has edited and adapted the following comprehensive [Guide to A+ Core Hardware](#). This free training guide was written for the [CompTIA A+ Core Hardware Technology Exam 220-231](#). Each chapter provides a great set of practice questions and answers with explanations.

In September 2006, the CompTIA A+ (A Plus) test was updated, and now the candidate takes the CompTIA A+ Essentials test along with one of the four other tests (220-602, 220-603, 220-604, 220-605). However, at this time A+ candidates are offered a choice between the 2003 and 2006 versions of the exam, and in 2007 it is likely the 2003 A+ track will be discontinued.

- [Introduction and "Guide to the Guide"](#)
- [Chapter 0000: The Start of the PC](#)
- [Chapter 0001: Power Supplies - System Board](#)
- [Chapter 0010: CPUs](#)
- [Chapter 0011: System Memory](#)
- [Chapter 0100: Hard Drives](#)
- [Chapter 0101: SCSI](#)
- [Chapter 0110: Removable Media](#)
- [Chapter 0111: Peripheral Devices](#)
- [Chapter 1000: Multimedia](#)
- [Chapter 1001: Notebooks](#)
- [Chapter 1010: Safety and the Environment](#)
- [Chapter 1011: Networking](#)
- [Chapter 1100: Troubleshooting](#)

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## **[Free Comprehensive Guide to A+ Operating Systems](#)**

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- [Introduction and "Guide to the Guide"](#)
- [Chapter 0000: How to Get There](#)
- [Chapter 0001: File Structure](#)
- [Chapter 0010: File Attributes](#)
- [Chapter 0011: DOS](#)
- [Chapter 0100: New Technology](#)
- [Chapter 0101: Networking](#)

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#### **4) University Computer Science Course Sites Free to Browse and Study:**

These web sites will be added to our Free University IT Course Webs page at <http://www.intelligentedu.com/cat3.html>

#### **9 AJAX Tutorials from Univeristy Courses**

Here are nine AJAX tutorials from several univeristy course sites. These will teach

you the basics and a few more advanced topics of coding web pages and applications with AJAX.

[AJAX Tutorial](#) (Powerpoint format) - 23 slides

[AJAX and JSP Primer](#) - This is a customer search example which uses the **XMLHttpRequest** object. Notice how after you type the customer ID and then change the caret's focus to the next form field, a name and lastname are filled in for you.

[AJAX Tutorial: Ajax What Is It Good For?](#) (37 pages) - AJAX is more a natural progression from an existing set of techniques as opposed to being something completely brand new. AJAX isn't a technology as such but rather is a technique that combines well with other technologies.

Google Calendar API, AJAX, DHTML examples

- [Using Google Calendar API basic feed and AJAX, list events](#)
- [Using Google Calendar API full feed and AJAX, using JavaScript to dynamically construct the month calendar, with mouse overs](#)
- [Tutorial for Google API, Ajax, sort and display events, dynamic construction of calendar and mouse overs](#)

[AJAX and Flash](#) - We'll retrieve weather information from [weather.yahoo.com](http://weather.yahoo.com) and experiment with Animation and simple ActionScript in Flash.

[AJAX Desktop Tutorial](#) - a nine-step tutorial takes you from detecting browsers (IE and Firefox now, Safari later) to creating widgets for RSS and search functions. All that's required to get started is a little HTML, CSS, and JavaScript experience.

[Rails and AJAX](#) (Powerpoint) - 14 slides

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**5) The Best Suggested Sites from our Website Users** - Every

month we feature the best suggested IT training and tutorial sites from our website visitors. Here are this month's sites:

### **[Planet Source Code](#)**

A large and freely available database of source code and technical tutorials hosting over 12,000,000 lines of code, articles and tutorials in 11 languages, as well as over 1,000 open job postings.

To start, select on of these categories:

<a href="#">Visual Basic</a>	<a href="#">Java/Javascript</a>
<a href="#">C/C++</a>	<a href="#">ASP</a>
<a href="#">SQL</a>	<a href="#">Perl</a>
<a href="#">Delphi</a>	<a href="#">PHP</a>
<a href="#">Cold Fusion</a>	<a href="#">.Net</a>

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### **[Business Analysis Guides and Case Studies](#)**

Here are several business analysis briefing studies and case studies that are targeted towards systems analysts, junior business analysts, and degree or diploma students. Their primary focus is on business systems, the analysis thereof, and the specification of a set of business requirements, using a pragmatic approach to the use of the Structured Systems Analysis and Design Method, SSADM.

- [Requirements Analysis & Specification](#)  
This Briefing Study guide specifies an optimal set of techniques that provides a Business Requirement Specification to an external supplier.
- [Acme Fashion Supplies Feasibility Study](#)  
This presently covers the Terms of Reference and partial Dataflow and Logical Data Models for a Feasibility Study for Acme Fashion Supplies.

- [Diagramming notation explained](#)

Most of the studies and guides use standard diagrams of various sorts. This slide sequence explains the notation used for each.

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### [Free CAD Lessons and AutoCAD Tutorials](#)

This site provides great tutorials / lessons for the student of AutoCAD. These lessons are designed to be as compatible with as many versions of AutoCAD as possible. The lessons are divided into 4 levels of learning. Each of the four CAD Levels is one learning section that builds on the previous one.

- CAD Level 1- Getting Started with AutoCAD
  - CAD Level 2 - Intermediate AutoCAD
  - CAD Level 3 - Introduction to 3-D
  - CAD Level 4 - Advanced Topics
- 
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## **6) New Computer & IT Training & Tutorial Link & Resource Sites:**

These web sites will be added to our IT Links and Resources page at <http://www.intelligentedu.com/cat6.html>

## [Online Software Tutorials](#)

This site contains links to over 850 online technical tutorials for the areas of programming, web development, web design, database, and graphics.

### **Programming Tutorials**

[Ada Tutorials](#)

[ASP Tutorials](#)

[ASP.NET Tutorials](#)

[Assembly Language Tutorials](#)

[BASIC Tutorials](#)

[Cobol Tutorials](#)

[C# Tutorials](#)

[C Tutorials](#)

[C++ Tutorials](#)

[C++ Graphics Tutorials](#)

[Delphi Tutorials](#)

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[Pascal Tutorials](#)

[Prolog Tutorials](#)

[Python Tutorials](#)

[Visual Basic Tutorials](#)

[VB Scripting Tutorials](#)

[XML Tutorials](#)

### **Web Development**

[ActionScript Tutorials](#)

[CGI Tutorials](#)

[Flash Tutorials](#)

[JSP Tutorials](#)

[Perl Tutorials](#)

[PHP Tutorials](#)

[Javascript Tutorials](#)

[VRML Tutorials](#)

### **Web Design**

[HTML Tutorials](#)

[DHTML Tutorials](#)

[XHTML Tutorials](#)

[Front Page Tutorials](#)

[Dreamweaver Tutorials](#)

[CSS Tutorials](#)

### **Database Tutorials**

[MS Access Database Tutorials](#)

[Oracle Database Tutorials](#)

[Structured Query Language \(SQL\)](#)

[VisualFoxPro Tutorials](#)

### **Graphics Design Tutorials**

[Fireworks Tutorials](#)

[Photoshop Tutorials](#)

## 7) I.T. Sites and Free Downloads Worth Mentioning:

### [WinDriversBackup Personal Edition 1.0.9](#)

WinDriversBackup is a free utility specifically for backing up your Windows system driver files. WinDriversBackup can identify all of your Windows driver files and save them to a secure location in two simple mouse clicks. Backing up your Windows driver files means they will be available to you the next time you need to reinstall the driver or the whole operating system. WinDriversBackup places the driver files in one organized location of your choosing. (2404 KB)

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### [XOSL 1.1.5](#)

Extended Operating System Loader (XOSL) is the world's only full-featured free boot manager, with a real, easy-to-use and full-blown graphical user interface. (437 kB)

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### [DLExpert 0.99](#)

DLExpert is a free multi-thread resuming downloading software. It makes full use

of resources of the client and the server to download files from the Internet at the most speedy rate. DLExpert can divide the file into any parts, at most more than 100 parts. Each of them will be downloaded by one thread, so different parts can be downloaded simultaneously, resulting in speedy downloading. DLExpert supports HTTP and FTP, also HTTP and FTP proxy. (739 KB)

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### **[X-Fonter 4.6](#)**

X-Fonter is a free user friendly Font Viewer, Font Manager and 3D Graphic creator. It also allows you to make nice 3D Graphics that you can use for your webpages, emails and much more. (843 KB)

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### **[Sophisticated Rename 1.7](#)**

Sophisticated Rename is a free program that allows you to rename a lot of files according to intricate templates. (908 KB)

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### **[CamStudio 2.0](#)**

CamStudio is a free program that records all screen activity into the standard AVI format which can be played back with Windows Media Player and many other third party tools that support the AVI format. You can use CamStudio to: demonstrate features of a new software, create movies used in user trainings, track the progress of a program that executes for a long time, record the sequence of steps

that cause the occurrence of bugs in faulty software, record a movie stream. (1328 KB)

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## 8) Question of the Month about Technical Training:

Each month Scott Turton will answer a current or important question that we have received about computer and IT training and career development.

### December 2006 Question of the Month:

I've heard the U.S. tech and I.T. job market is picking up steam, what is the scoop?

### Answer:

Yes, the job market for high tech and Information Technology workers has been and still is getting better and the number of jobs available is now at a much higher level than even a year ago. This current article from ITManagment on Dec. 15, 2006, "2007, titled "[Where the Tech Jobs Are](#)", states the following about this job market:

- IT unemployment is down to a tiny 2.5 percent
- Salaries are trending higher, though modestly, in the 3-5% range
- Hiring bonuses and other incentives are coming back in vogue
- The average time to fill a job is about 30 days
- Job candidates need to post their resumes because many jobs are not advertised
- Most openings are in Software Development, Open Source, Linux, DBAs, Projects Managers, Cisco, and Security - [others](#) are saying high-end Web Programming and Embedded Programming are also hot
- Offshore outsourcing is growing, but it's still relatively small (400,000) compared to the overall labor market for technologists in the U.S. (10,000,000) - the domestic demand is much stronger than the leakage due to offshoring

Here is another articles detailing the good news with the tech job market, [Tech Pros Feeling Good About Jobs And Prospects](#). This article says that demand for tech talent is predicted to become increasingly intense in 2007. Also, job analysts are seeing strong demand for skills that help bridge the gap between technologists and users. Hiring companies are saying, "Let's reinvent the business, launch new things, and become more competitive."

Also, here is [an article](#) from Dr. Dobbs that discusses the I.T. job growth that will be coming due to Windows Vista. An IDC study estimated a 100,000-job "bounce" to U.S. IT employment next year due to Microsoft's new operating system.

You can keep current with news about [high tech jobs](#) and [I.T. jobs](#) through [news.google.com](#).

I hope this help you.

Scott Turton  
Site Editor  
<http://www.intelligentedu.com>

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## 9) Please Support Our Training Mission

<http://www.intelligentedu.com/support.html>

### How You Can Support Our IT Training Mission

Please help support Intelligentedu.com's Computer and IT Education and Training Mission by visiting our sponsors below. By doing so, you will be helping people who want to learn to use computers in an Information Technology career.

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## **Computer Education, Training, & Tutorial Resources**

**<http://www.intelligentedu.com/>**

**Free I.T. Training Now!**

A free and member-based I.T. educational and training portal web site. We have compiled, categorized, described, and linked many, many sites that will be of keen interest to computer science students and instructors and others seeking free training and knowledge about computers. All areas are covered, from programming to systems administration to networking to the internet. You are able to study and learn all about computers and I.T. via Free training, courses, tutorials, books, guides, documentation, articles, tips, notes, and help. Also offered are free technical training tutorials co-branded with [Freeskills.com/](http://www.freeskills.com/). Check us out today.

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### **\*\*\* Intelligentedu.com's Member Site \*\*\***

<http://www.intelligentedu.com/sign-up/index.html>

Our Members' Site contains the web's best computer and IT training resources and tutorials. This content is individually linked and presented in a way to expedite and facilitate your IT learning experience. We have done all the web research and presentation work for you so you can concentrate solely on your computer training.

Intelligentedu.com Member Site FAQ Answers:

1. Over half of the web sites and pages in our members site are not in the free section of our web site. The online training resources in our members' site are linked and laid out in a much more detailed fashion than those in the free section. This will save you time in finding all the best free training on the web.
2. If you use a credit card when joining, you may choose to be billed by PayPal, or you may purchase from 2checkout.com, our authorized retailer, whichever you choose.
3. You have a choice to select the non-recurring or recurring method of payment. If you select non-recurring, when your membership period expires, you will not be automatically charged another fee on your credit card or check.
4. If you are looking for training and tutorials covering popular software such as Microsoft Office, Flash, Photoshop, Dreamweaver, Web Development, Windows and Computer Hardware, please see our sister site, <http://www.EducationOnlineForComputers.com>

The total price to join our member's site is only \$15.00 total for 2 months, \$25 for 4 months, \$34 for 6 months, or \$59 for a whole year. The funds generated will assist us to help all those seeking IT education and application development training. Here's the link to see what's available on our member's site and to sign up: [<http://www.intelligentedu.com/sign-up/index.html>](http://www.intelligentedu.com/sign-up/index.html). You can email Scott Turton with questions at [scott\\_turton@intelligentedu.com](mailto:scott_turton@intelligentedu.com).

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