

- 1 Chapter 16
Computer Careers and Certification
- 2 Chapter 16 Objectives
- 3 Careers in the Computer Industry
What is the expected demand for computer professionals?
- 4 Careers in the Computer Industry
What are the four primary areas where job opportunities are found?
- 5 Careers in the Computer Industry
 - 1 **Where can you find information on specific computer-related careers?**
 - 2 ❖ Through typical job-searching methods
 - 2 ❖ Career-oriented sites on WWW
- 6 Careers in the Computer Industry
 - 1 **What is the computer hardware industry?**
 - 2 ❖ Consists of small and large manufacturers and distributors of computers and computer-related equipment
- 7 Careers in the Computer Industry
 - 1 **What are some of the more popular job titles in the computer equipment industry?**
 - 2 ❖ Larger companies have several levels to each job title, including management careers
 - 2 ❖ Visit company Web site for career information
- 8 Careers in the Computer Industry
 - 1 **What is the computer software industry?**
 - 2 ❖ Composed of companies that develop, manufacture, and support wide range of software products
- 9 Careers in the Computer Industry
 - 1 **What are some career opportunities in the software industry?**
 - 2 ❖ Involve designing and programming all kinds of software products
- 10 Careers in the Computer Industry
 - 1 **What is an IT professional?**
 - 2 ❖ Sets up and manages computer equipment and software in IT department
 - 2 ❖ Includes programmers and systems analysts
- 11 Careers in the Computer Industry
What are the job categories in an IT department?
- 12 Careers in the Computer Industry

- 1 **What are career opportunities in education and training?**
 2 ❖ Schools, colleges, universities, and private companies all need qualified instructors
- 13 Careers in the Computer Industry
 1 **What are careers in computer sales?**
 2 ❖ Sales representatives must have general understanding of computers and specific knowledge of product they are selling
- 14 Careers in the Computer Industry
 1 **What are some careers in service and repair?**
 2 ❖ Challenging for individuals who like to troubleshoot and solve problems
❖ Have a strong background in electronics
- 15 Careers in the Computer Industry
 1 **What is a consultant?**
 2 ❖ Individual who draws upon experiences to give advice to others
- 16 Preparing for a Career in the Computer Industry
 1 **What are the first steps in preparing for a career in the computer industry?**
 2 ❖ First must decide on the area in which you are interested
❖ Obtain education in that field
- 17 Preparing for a Career in the Computer Industry
What are the three broad disciplines in higher education that produce the majority of entry-level employees in the computer industry?
- 18 Preparing for a Career in the Computer Industry
 1 **What is an articulation agreement?**
 2 ❖ Ensures that courses taken at one institution will transfer to another
- 19 Preparing for a Career in the Computer Industry
 1 **What is a trade school?**
 2 ❖ Offers programs primarily in the areas of programming and maintenance
❖ Students can complete trade school programs in a shorter time than college or university programs
- 20 Preparing for a Career in the Computer Industry
How can you plan for career development?
- 21 Preparing for a Career in the Computer Industry
What are some organizations for computer professionals?
- 22 Preparing for a Career in the Computer Industry
What are the URLs for some professional organizations?
- 23 Preparing for a Career in the Computer Industry
 1 **What is a user group?**
 2 ❖ Collection of people with common computer equipment or software interests

- 24 Preparing for a Career in the Computer Industry
What is professional growth and continuing education?
- 25 Preparing for a Career in the Computer Industry
What are some Web news sites?
- 26 What is Computer Certification?
1 **What is computer certification?**
2 ❖ **Method for employers to ensure level of competency, skills, or quality in a particular area**
- 27 Types of Computer Certification
1 **How are certifications classified?**
2 ❖ **Software applications**
❖ **Operating systems**
❖ **Programming**
❖ **Hardware**
❖ **Networking**
❖ **Internet**
❖ **Database systems**
- 28 A Guide to Computer Certification
What are software applications certifications?
- 29 A Guide to Computer Certification
What are operating systems certifications?
- 30 A Guide to Computer Certification
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- 31 A Guide to Computer Certification
What are hardware certifications?
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- 33 A Guide to Computer Certification
What are Internet certifications?
- 34 A Guide to Computer Certification
What are database systems certifications?
- 35 Certification Benefits
1 **What is a primary benefit of certification?**
2 ❖ **Enhances careers; provides a better salary and a better standing as industry professionals**
- 36 Choosing a Computer Certification
1 **What are factors to consider in choosing a certification?**

- ❖ **Reflect on your career goals and interests**
 - ❖ **Consider your long-term career path**
 - ❖ **Assess your background and experience**
 - ❖ **Research certifications**
- 37 **Preparing for Computer Certification**
- ❖ **1 What options are available to prepare for certification?**
 - ❖ **2 Most certification programs do not require academic coursework**
- 38 **Computer Certification Examinations**
- ❖ **1 What are examinations like?**
 - ❖ **2 Examinations, usually multiple choice, are taken using computers**
- 39 **Summary of Computer Careers and Certification**
- ❖ **Careers in the computer industry**
 - ❖ **Preparing for a career in the computer industry**
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 - ❖ **Types of computer certification**
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 - ❖ **Certification benefits**
 - ❖ **Choosing a computer certification**
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 - ❖ **Computer certification examinations**