WEEK 2

ETHICS FOR IT PROFESSIONALS AND IT USERS

OBJECTIVES

- What key characteristics distinguish a professional from other kinds of workers, and what is the role of an IT professional?
- What relationships must an IT professional manage, and what key ethical issues can arise in each?
- How do codes of ethics, professional organizations, certification, and licensing affect the ethical behavior of IT professionals?

OBJECTIVES (CONTINUED)

- What are the key tenets of four different codes of ethics that provide guidance for IT professionals?
- What are the common ethical issues that face IT users?
- What approaches can support the ethical practices of IT users??

IT PROFESSIONALS

- Profession is a calling that requires
 - Specialized knowledge
 - Long and intensive academic preparation

ARE IT WORKERS PROFESSIONALS?

- Partial list of IT specialists
 - Programmers
 - Systems analysts
 - Software engineers
 - Database administrators
 - Local area network (LAN) administrators
 - Chief information officers (CIOs)

ARE IT WORKERS PROFESSIONALS? (CONTINUED)

- Legal perspective
 - IT workers are not recognized as professionals
 - Not licensed
 - IT workers are not liable for malpractice

PROFESSIONAL RELATIONSHIPS THAT MUST BE MANAGED

- IT professionals have many different relationships with:
 - Employers
 - Clients
 - Suppliers
 - Other professionals
 - IT users
 - Society at large

RELATIONSHIPS BETWEEN IT PROFESSIONALS AND EMPLOYERS

- IT professionals must set an example and enforce policies regarding the ethical use of IT
- Software piracy is the act of illegally making copies of software or enabling others to access software to which they are not entitled

RELATIONSHIPS BETWEEN IT PROFESSIONALS AND EMPLOYERS (CONTINUED)

- •Software piracy is an area in which IT professionals can be tempted to violate laws and policies
- The Business Software Alliance (BSA) is a trade group that represents the world's largest software and hardware manufacturers
 - Its mission is to stop the unauthorized copying of software produced by its members

MEMBERS OF BUSINESS SOFTWARE ALLIANCE (AS OF JULY 2005)

ABLE 2-2 Member	s of Business Software All	iance (as of July 2005)	
Adobe	Apple	Autodesk	
Avid	Bentley Systems	Borland	
Cadence	Cisco Systems	CNC Software/Mastercam	
Dell	Entrust	HP (Hewlett-Packard)	
IBM	Intel	Internet Security Systems	
Macromedia	McAfee, Inc.	Microsoft	
PTC	RSA Security	SAP	
SolidWorks	Sybase	Symantee	
The Mathworks	UGS Corp.	VERITAS Software	

RELATIONSHIPS BETWEEN IT PROFESSIONALS AND EMPLOYERS (CONTINUED)

- Trade secret
 - Information used in business
 - Generally unknown to the public
 - Company has taken strong measures to keep confidential
- Whistle-blowing
 - Attracts attention to a negligent, illegal, unethical, abusive, or dangerous act that threatens the public interest

RELATIONSHIPS BETWEEN IT PROFESSIONALS AND CLIENTS

- IT professional provides
 - Hardware, software, or services at a certain cost and within a given time frame
 - Client provides
 - Compensation
 - Access to key contacts
 - Work space
- Relationship is usually documented in contractual terms

RELATIONSHIPS BETWEEN IT PROFESSIONALS AND CLIENTS (CONTINUED)

- Ethical problems arise if a company recommends its own products and services to remedy problems they have detected
 - A company is unable to provide full and accurate reporting of a project's status

LEGAL OVERVIEW: FRAUD, MISREPRESENTATION, AND BREACH OF CONTRACT

Fraud

- Crime of obtaining goods, services, or property through deception or trickery
- Fraud is proven in court
- Breach of contract
 - One party fails to meet the terms of a contract

LEGAL OVERVIEW: FRAUD, MISREPRESENTATION, AND BREACH OF CONTRACT (CONTINUED)

- IT projects are joint efforts in which vendors and customers work together
 - Difficult to assign blame

• RELATIONSHIPS BETWEEN IT PROFESSIONALS AND SUPPLIERS

- Develop good relationships with suppliers
 - Deal fairly with them
 - Do not make unreasonable demands
- Bribery
 - Providing money, property, or favors to someone in business or government to obtain a business advantage
 - U.S. Foreign Corrupt Practices Act (FCPA) makes it a crime to bribe a foreign official, a foreign political party official, or a candidate for foreign political office

RELATIONSHIPS BETWEEN IT PROFESSIONALS AND SUPPLIERS (CONTINUED) •

Bribery

- At what point does a gift become a bribe?
- No gift should be hidden
- Perceptions of donor and recipient can differ

DISTINGUISHING BETWEEN A BRIBE AND A GIFT

TABLE 2-3 Distinguishing between a bribe and a gift

Bribes	Gifts
Are made in secret, as they are neither legally nor morally acceptable	Are made openly and publicly as a gesture of friend- ship or goodwill
Are often made indirectly through a third party	Are made directly from donor to recipient
Encourage an obligation for the recipient to act favorably toward the donor	Come with no expectation of a future favor for the donor

RELATIONSHIPS BETWEEN IT PROFESSIONALS AND OTHER PROFESSIONALS

- Professionals owe each other adherence to a profession's code of conduct
- Ethical problems between members of the IT profession
 - Résumé inflation
 - Inappropriate sharing of corporate information

RELATIONSHIPS BETWEEN IT PROFESSIONALS AND IT USERS •

IT user is a person for whom a hardware or software product is designed

- IT professionals' duty
 - Understand users' needs and capabilities
 - Deliver products and services that best meet those needs
 - Establish an environment that supports ethical behavior by users

RELATIONSHIPS BETWEEN IT PROFESSIONALS AND SOCIETY

 Actions of an IT professional can affect society

THE ETHICAL BEHAVIOR OF IT PROFESSIONALS

 Corporations are taking actions to ensure good business ethics among employees

PROFESSIONAL CODES OF ETHICS

- A professional code of ethics states the principles and core values that are essential to the work of a particular occupational group
- Main parts:
 - Outlines what the professional organization aspires to become
 - Lists rules and principles by which members of the organization are expected to abide

PROFESSIONAL CODES OF ETHICS (CONTINUED)

- Benefits for individual, profession, and society
- Improves ethical decision making
- Promotes high standards of practice and ethical behavior
- Enhances trust and respect from the general public
- Provides an evaluation benchmark

PROFESSIONAL ORGANIZATIONS

- No universal code of ethics for IT professionals
- No single, formal organization of IT professionals has emerged as preeminent
- Most prominent organizations include:
 - Association for Computing Machinery (ACM)
 - Association of Information Technology Professionals (AITP)
 - Computer Society of the Institute of Electrical and Electronics Engineers (IEEE-CS)
 - Project Management Institute (PMI)

CERTIFICATION

- Indicates a professional possesses a particular set of skills, knowledge, or abilities in the opinion of a certifying organization
- Can also apply to products
- Generally voluntary
- Carries no requirement to adhere to a code of ethic

CERTIFICATION (CONTINUED)

- Vendor certifications
 - Some certifications substantially improve IT workers' salaries and career prospects
 - Relevant for narrowly defined roles
- Or certain aspects of broader roles
 - Require passing a written exam
 - Workers are commonly recertified as newer technologies become available

CERTIFICATION (CONTINUED)

- Industry association certifications
 - Require a certain level of experience and a broader perspective than vendor certifications
 - Lag in developing tests that cover new technologies

GOVERNMENT LICENSING

- Generally administered at the state level in the United States
- Case for licensing IT professionals
 - Encourage IT professionals to follow the highest standards of the profession
 - Practice a code of ethics
 - Violators would be punished

GOVERNMENT LICENSING (CONTINUED)

- Issues associated with government licensing of IT professionals
 - There are few international or national licensing programs for IT professionals
 - No universally accepted core body of knowledge
 - Unclear who should manage content and administration of licensing exams
 - No administrative body to accredit professional education programs
 - No administrative body to assess and ensure competence of individual professionals

IT PROFESSIONAL MALPRACTICE

- Negligence has been defined as not doing something that a reasonable man would do, or doing something that a reasonable man would not do
- Duty of care refers to the obligation to protect people against any unreasonable harm or risk

IT USERS

• Employees' ethical use of IT is an area of growing concern

COMMON ETHICAL ISSUES FOR IT USERS

- Software piracy
- Inappropriate use of computing resources
- Inappropriate sharing of information
 - Private data
 - Confidential information