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CUNY Institute for Software Design and Development
CS Council Meeting
November 10, 2006

Quality Assurance roles

- Testing
 - Test technician
 - Test analyst
 - Test engineer
- Quality Control
 - Test manager
- Quality Assurance
 - QA manager

Testing activities

- Test execution
- Test design
- Test development
- Test automation
- Defect reporting
- Defect tracking

Quality Control activities

- Project management
- Resource allocation
- Change control
- Test tool management
- Test environment coordination
- Systems analysis
- Requirements analysis

Quality Assurance activities

- Software engineering
- Social science research methods
- Cross-cultural communication
- Risk analysis
- Statistics
- Organizational behavior
- Supplier management
- Contract governance

Bodies of Knowledge and Certifications

- ISTQB
- BCS ISEB
- ASQ CSQE
- PMI PMP
- SEI CMMI
- ...etc.



Proposed academic programs

- Certificate in Testing
- Courses in testing and quality control for CS software engineering undergraduate majors
- Interdisciplinary specialization in quality assurance with business and anthropology/sociology departments for CS graduate students

Importance to Industry

- Resources: 30-60% of IT projects
- Recruitment: staffing difficulties
- Training: costs and learning curve
- Competitiveness: US disadvantage



Questions and discussion