



Recommended References

The following books are recommended to candidates preparing for the IEEE Computer Society Certified Software Development Professional Examination.

Software Engineering Overview

Either of the following books is recommended as an overview of software engineering:

- **Software Engineering: A Practitioner's Approach**, 5th ed., Pressman, Roger S., New York, New York: McGraw-Hill, 2000.
- **Software Engineering**, Sommerville, I., 6th ed. Reading, Massachusetts: Addison-Wesley, 2000.

CSDP Resource Guide

- **Software Engineering, Volume 1 - The Development Process, Second Edition.** Thayer, R. & Dorfman, M., eds., Los Alamitos, California: IEEE Computer Society Press, 2002.
- **Software Engineering, Volume 2 - The Supporting Process, Second Edition.** Thayer, R. & Christensen, M., eds., Los Alamitos, California: IEEE Computer Society Press, 2002.

The following books are suggested as supplemental reading in this area:

- **Software Engineering.** Dorfman, M. & Thayer, R., eds., Los Alamitos, California: IEEE Computer Society Press, 1997.
- **Software Engineering – Theory and Practice**, Pfleeger, Shari Lawrence, Upper Saddle River, NJ: Prentice Hall, 1998.
- **IEEE Software Engineering Collection**, 1999, vols. 1-4.

Software Configuration Management

No book-length references are recommended for this topic.

Software Construction

The following book is recommended on this topic:

- **Code Complete**, McConnell, Steve, Microsoft Press, 1993.

The following books are suggested as supplemental reading in this area:

- **The Practice of Programming**, Kernighan, Brian W. and Rob Pike, Reading, Mass.: Addison Wesley, 1999.
- **The Pragmatic Programmer: From Journeyman to Master**, Hunt, Andrew, David Thomas, and Ward Cunningham, Reading, Mass.: Addison Wesley, 1999.

Software Design

Any one of the following books is recommended in this area:

- **Software Architecture in Practice**, Bass, Len, Paul Clements and Rick Kazman. Reading, Massachusetts: Addison-Wesley, 1998.
- **Pattern Oriented Software Architecture: A System of Patterns**, Buschmann, Frank, et al, John Wiley & Sons, 1996.
- **Fundamentals of Object-Oriented Design in UML**, Page-Jones, Meilir, Addison-Wesley, 1999.

The following books are suggested as supplemental reading in this area:

- **Fundamentals of Database Systems**, Elmasri, Ramez and Shamkant Navathe, 3d Ed., Reading, Mass.: Addison Wesley, 2000.
- **Software Reuse: Architecture, Process and Optimization for Business Success**, Jacobsen, Ivar, Martin Griss, and Patrik Jonson, Reading, Massachusetts: Addison-Wesley, 1997.

Software Engineering Tools & Methods

No book-length references are recommended for this topic.

Software Engineering Management

Any one of the following books is recommended in this area:

- **Principles of Software Engineering Management**, Gilb, Tom, Reading, Mass.: Addison Wesley, 1988.
- **Rapid Development**, McConnell, Steve, Microsoft Press, 1996.
- **Software Engineering Project Management**, 2d ed, Thayer, Richard H., IEEE Computer Society Press, Los Alamitos, CA 1997
- **Quality Software Management, Vol. 1, Systems Thinking**, Weinberg, Gerald M.. New York: Dorset House, 1992.

The following book is suggested as supplemental reading in this area:

- **Developing Managerial Skills in Engineering and Scientist**, Badawy, Michael K. Van Hostrand, NY, 1995

Software Engineering Process

Either of the following books is recommended in this area:

- **The Capability Maturity Model: Guidelines for Improving the Software Process**, Paulk, Mark, et al (Carnegie Mellon University / Software Engineering Institute). Reading, Mass.: Addison Wesley, 1995.
- **Managing the Software Process**, Humphrey, Watts S. Reading, Massachusetts, Addison-Wesley, 1989.

Software Maintenance



The following book is recommended on this topic:

- **Practical Software Maintenance**, Pigoski, Thomas M. New York, Wiley Computer Publishing, 1997.

Software Quality

No book-length references are recommended for this topic.

The following books are suggested as supplemental reading in this area:

- **Software Engineering**, Dorfman, M. & Thayer, R., eds. Los Alamitos, California: IEEE Computer Society Press, 1997.
- **Software Inspection**, Gilb, Tom., and Dorothy Graham, Reading, MA, Addison-Wesley, 1994.
- **Practical Guide to Software Quality Management**, Horch, John, Artech House, 1996.
- **A Discipline for Software Engineering**, Humphrey, Watts S. Reading, Massachusetts: Addison-Wesley, 1995.
- **Metrics and Models in Software Quality Engineering**, Kan, Stephen H. Addison Wesley, 1995.

Software Requirements Engineering

Any one of the following books is recommended in this area:

- **Software Requirements: Objects, Functions, & States**, Davis, Alan. Upper Saddle River, New Jersey: Prentice Hall, 1993.
- **Practical Software Requirements: A Manual of Content and Style**, Kovitz, Benjamin L., Manning Publications Company, 1998.
- **Mastering the Requirements Process**, Robertson, James and Suzanne Robertson, New York: Dorset House, 2000.
- **Requirements Engineering: A Good Practice Guide**, Sommerville, Ian, New York: John Wiley & Sons, 1997.
- **Software Requirements**, Wiegers, Karl. Microsoft Press, 1999.

The following book is suggested as supplemental reading in this area:

- **Software Requirements Engineering**, 2nd ed., Thayer, Richard H., and Merlin Dorfman, eds., IEEE Computer Society Press, Los Alamitos, CA 1997

Software Testing

Any one of the following books is recommended in this area:

- **Testing Object-Oriented Systems**, Binder, Robert V. Reading, Massachusetts: Addison-Wesley, 2000.
- **Complete Guide to Software Testing**, 2nd Ed., Hetzel, Bill, New York, New York: John Wiley & Son, 1993.
- **Software Testing : A Craftsman's Approach**, Jorgensen, Paul C. CRC Press, 1995.
- **Testing Computer Software**, 2nd Ed., Kaner, Clem, Jack Falk, and Hung Quoc Nguyen, New York, New York: John Wiley and Sons, 1999.
- **Software Testing and Continuous Quality Improvement**, Lewis, William. CRC Press 2000.
- **The Craft of Software Testing: Subsystems Testing Including Object-Based and Object-Oriented Testing**, Marick, Brian. Prentice Hall, 1997.

Professionalism and Engineering Economics



No book-length references are recommended for this topic.

The following books are suggested as supplemental reading in this area:

- **Morality and Machines: Perspectives on Computer Ethics**, Edgar, S. L., Sudbury, Massachusetts: Jones and Bartlett, 1997.
- **Computer Ethics**, 2d Ed., Johnson, Deborah G, Upper Saddle River, NJ: Prentice-Hall, 1994.
- **Smith and Roberson's Business Law**, 11th ed., Mann, Richard A., & Barry S. Roberts, Cincinnati, OH: West Thomson Learning, 2000.
- **Engineering Economy**, Thussen, G.J., Prentice-Hall, 2000.