Software engineering

**Software Engineering** is the application of [engineering](https://en.wikipedia.org/wiki/Engineering) to the [development](https://en.wikipedia.org/wiki/Software_development) of [software](https://en.wikipedia.org/wiki/Software) in a systematic method

The [Software Engineering Institute](https://en.wikipedia.org/wiki/Software_Engineering_Institute) offers certifications on specific topics like [security](https://en.wikipedia.org/wiki/IT_security), process improvement and [software architecture](https://en.wikipedia.org/wiki/Software_architecture).[[32]](https://en.wikipedia.org/wiki/Software_engineering#cite_note-32) [Apple](https://en.wikipedia.org/wiki/Apple_certification_programs), [IBM](https://en.wikipedia.org/wiki/Information_Technology_Architect_Certification), [Microsoft](https://en.wikipedia.org/wiki/Microsoft_Certified_Professional) and other companies also sponsor their own certification examinations. Many [IT](https://en.wikipedia.org/wiki/Information_technology) [certification](https://en.wikipedia.org/wiki/Professional_certification_(computer_technology)) programs are oriented toward specific technologies, and managed by the vendors of these technologies.[[33]](https://en.wikipedia.org/wiki/Software_engineering#cite_note-33)These certification programs are tailored to the institutions that would employ people who use these technologies.

Broader certification of general software engineering skills is available through various professional societies. As of 2006, the [IEEE](https://en.wikipedia.org/wiki/IEEE) had certified over 575 software professionals as a [Certified Software Development Professional](https://en.wikipedia.org/wiki/Certified_Software_Development_Professional) (CSDP).[[34]](https://en.wikipedia.org/wiki/Software_engineering#cite_note-ieee2006-34) In 2008 they added an entry-level certification known as the Certified Software Development Associate (CSDA).[[35]](https://en.wikipedia.org/wiki/Software_engineering#cite_note-35) The [ACM](https://en.wikipedia.org/wiki/Association_for_Computing_Machinery) had a professional certification program in the early 1980s,[*[citation needed](https://en.wikipedia.org/wiki/Wikipedia:Citation_needed" \o "Wikipedia:Citation needed)*] which was discontinued due to lack of interest. The ACM examined the possibility of professional certification of software engineers in the late 1990s, but eventually decided that such certification was inappropriate for the professional industrial practice of software engineering.

Click below for books related to software engineering:

1.Phillip A. Laplante

2.David Budgen

3.Ronald J. Leach

4.Pankaj Jalote’s

5.Rajib Mall