



Software Product Line Curriculum and Certificate Program

For more information about the curriculum

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For general information about the SEI

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Related SEI publications

Software Product Lines: Practices and Patterns, by Paul Clements and Linda Northrop, which is part of the SEI Series in Software Engineering, published by Addison-Wesley

Related Web site

www.sei.cmu.edu/productlines/start/training/

Interested in...

- lowering your overall production costs by as much as 50%?
- dramatically reducing your time to market?
- improving the quality of your products?

Organizations of all types and sizes are discovering that a product line strategy, when skillfully implemented, can produce those benefits—and ultimately give the organizations a competitive edge.

Learn how to deploy software product lines successfully in your organization

Learn all about software product lines—what they are, why they can be beneficial, how to adopt and develop them in your organization, and how to employ the proven strategies and techniques that make them successful.

The Software Engineering Institute (SEI) has developed a series of three courses designed to equip you with state-of-the-art practices, so you can use software product lines efficiently to achieve your business goals:

- Software Product Lines
- Adopting Software Product Lines
- Developing Software Product Lines

Earn the SEI Software Product Line Professional Certificate

Take all three courses and earn an SEI certificate as a Software Product Line Professional.

Recent attendees have said this about the Software Product Lines course:

“This course was very educational and well presented and will inspire me to apply this approach to one of my projects.”

“This course was a great introduction to software product lines. I wish my management would attend.”

“This was directly applicable to my everyday job. The course brought out some definite areas where I can propose improvements.”

“This course is useful for any software project—not just product lines.”

Software Product Line Curriculum and Certificate Program

Register for These Courses Now

Software Product Lines course

This two-day course introduces the world of software product lines and the basic concepts behind it. A software product line is a set of software-intensive systems that share a common, managed set of features satisfying a particular market or mission area and are built from a common set of core assets in a prescribed way.

Adopting a product line approach to software is both a business and technical decision. This course provides an overview of the essential technical and management practices needed to succeed with software product lines and provides guidelines for applying product line techniques. Case studies illustrate the concepts. This course, which is also included in the SEI Software Architecture Curriculum, is based on the book *Software Product Lines: Practices and Patterns*, by Paul Clements and Linda Northrop (published by Addison-Wesley).

This course is a prerequisite for all other courses in the Software Product Line Curriculum.

Who should attend?

software engineers and technical managers interested in effective reuse strategies

Scheduled offerings

To find upcoming courses, visit www.sei.cmu.edu/training/p36.cfm

Prices

U.S. Gov't./U.S. Academic	\$1200
U.S. Industry	\$1500
International	\$2250

Adopting Software Product Lines course

This two-day course describes a practical, phased, pattern-based approach to plan and orchestrate software product line adoption. It provides in-depth coverage of software product line adoption issues. An explicit pattern-based product line adoption roadmap is detailed in terms of focus areas, phases, subpatterns, and related practice areas, outputs, and roles. An adoption planning process and examples of product line adoption plans are presented. The course also describes strategies for exploiting other ongoing improvement initiatives, such as Capability Maturity Model[®] Integration (CMMI[®]) and Six Sigma, during product line adoption. The goal of the course is for participants to know what is involved in product line adoption and how to plan for it.

Prerequisite

completion of the Software Product Lines course

Who should attend?

- software engineers or technical managers who are interested in moving to a software product line approach
- anyone who is responsible for creating and/or managing a software product line adoption effort

Scheduled offerings

To find upcoming courses, visit www.sei.cmu.edu/training/p45.cfm

Prices

U.S. Gov't./U.S. Academic	\$1100
U.S. Industry	\$1400
International	\$2100

Developing Software Product Lines course

Developing a software product line requires planning, orchestration, and technical expertise. For those who have never been part of a working product line organization, the details of and interrelationships among the artifacts can be intimidating.

This two-day course provides hands-on experience in understanding and applying the practice areas needed for software product line mastery. It provides an in-depth treatment of the concepts and essential ideas covered in the Software Product Lines course. Using a comprehensive software product line example that includes a complete set of assets and artifacts, participants will work together to carry out many of the management and engineering activities necessary for successful product line practice. The goal of the course is for participants to try their hand at many of the essential engineering and management practices in a setting that is realistic but forgiving; their mistakes will be valuable learning experiences rather than expensive organizational setbacks.

Prerequisite

completion of the Software Product Lines course

Who should attend?

software engineers and managers who are interested in applying software product line engineering in their organizations

Scheduled offerings

To find upcoming courses, visit www.sei.cmu.edu/training/p46.cfm

Prices

U.S. Gov't./U.S. Academic	\$1100
U.S. Industry	\$1400
International	\$2100