



## Introduction to Patterns-Based Engineering

**Level:** Intermediate

**Prerequisites:** Familiarity with Patterns.

**Audience:** Software Architects, Developers, Project Leads

**Approach:** Lecture, Discussions, Workshop

**Length:** 1 Day

### Workshop Description

With growing pressure to deliver better software, more quickly with limited resources - we need to find ways to increase productivity. Patterns - proven, best practice solutions to recurring problems - need to be part of our toolkit. But which patterns should we use? Are there patterns that are unique to our projects? How do we capture our patterns? Do we just document them? Or, do we automate them in tooling?

Patterns-Based Engineering (**PBE**) provides us with a framework, guidance and tooling to optimize the use of patterns in our development efforts. This includes supporting us as we identify, create, manage and consume patterns.

In this workshop, we take an end-to-end look at PBE, working through:

1. Customizing and integrating the PBE Practice into a development process.
2. Using the PBE Patterns and Guidelines.
3. Using both Pattern Specifications and Pattern Implementations
4. Integrating PBE into Agile approaches
5. Enhancing software architecture through patterns
6. Enhancing pattern consumption

At the conclusion of this workshop, participants understand the required effort and the benefits that patterns can bring to an enterprise. They will be able to use the PBE Practice, PBE Patterns and Guidelines, and the PBE Core Values to initiate and drive a PBE effort within an organization.

### Related Workshops

For students interested in continued learning in this field, we suggest taking:

- Pattern Implementation Workshop
- Introduction to Domain Specific Languages
- Creating Domain Specific Languages

### About The Emphasys Group

The Emphasys Group brings a unique and exceptional blend of experience and expertise focused on infusing reuse, automation and agile best practices into software delivery organizations.

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