

# Foundations for Success in Software Development

## **Duration**

2 days

## **Instructor**

Geoff Hewson

## **Class Limit**

20 students

## **Prerequisite**

None

## **Price**

On-site

Please contact SPC for pricing (contact information on page 2)

Public Training

\$1095 (2 days)

\*Discount available for early registration

## **Materials Provided**

- Student manual containing the course slides
- Student handouts with class exercises and class studies

Industry research indicates that less than 35% of software projects are completed on time or on budget. Of the other 65%, close to a third of these projects are cancelled before a product is delivered.

This seminar will explore the causes of these chronic failures, and what you need to do to avoid them by focusing on the foundational capabilities a software team needs to have if they are to be consistently successful, introducing the key building blocks of in the process of professional software development:

- Adopting a suitable development lifecycle aligned with business needs
- Realistic project planning based on known requirements to drive achievable projects
- Maintaining a stable code base through configuration management
- Focusing on quality throughout the lifecycle

Attendees will learn how to implement these important disciplines that lead to a successful software project and how these best practices can increase the success of development projects.

## **Instructor**

As President and Chief Knowledge Officer of the SPC, Geoff Hewson is responsible for championing the company's long-term mission of enabling software organizations throughout the world to realize the full business potential of their software development processes, technologies and teams.

Geoff also oversees the service delivery division of SPC and overall thought leadership behind service offerings and research. During his eight years with SPC, Geoff has directed numerous consulting projects, where his interests have covered most aspects of software development.

Geoff's 20+ years of IT experience has also included senior positions with Microsoft, Ford Motor and the Canadian Federal Government.

Geoff holds a Ph.D. in Physical Chemistry from the University of Sheffield, UK.

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# Foundations for Success in Software Development Outline

## **Intended Audience**

This is an introductory seminar that is intended for anyone involved in software development projects in a team environment: Developers, Testers, Business Analysts, Project Managers, Team Leads, and Managers who are new to the discipline of software engineering or who are looking to brush up their basics.

Attendees will be introduced to critical industry best practices in software development. Practices that will lead to successful and stress free project delivery.

This is an excellent primer for software professionals seeking an understanding of some high impact ways to achieve software project success.

## **The Software Development Challenge**

- Common development problems and their causes

## **Software Development Strategies**

- Choosing The Right Development Life Cycle
- Software Architecture and Component-based development
- Build and Deployment strategies

## **Project Management & Requirements**

- Options for Team Structure
- Project Planning and Requirements Development activities and deliverables
- Software Estimation
- Integrating the project planning and requirements development process
- Requirements management
- Project Control strategies

## **Configuration Management**

- The elements of the configuration management discipline
- Models for source code control
- Configuration planning
- Configuration control
- Change management

## **Quality Management**

- Quality Assurance vs. Testing
- Quality throughout the Life Cycle
- Validation and verification
- Peer Reviews and Inspections
- Testing approaches and Test Management



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