

Price: R2,500.00 excl. VAT
Duration: 1 day
Code: ETHCS

Coding Ethics

Description

In today's world, almost everything that we do relies on software. Software that is badly written, unethically designed, or poorly tested has serious consequences. It is time that programmers subscribe to a code of ethics that governs what they do and how they do it. This seminar covers the importance of ethics, and the behaviour that we should demand of every one involved in software development. Delegates are encouraged to debate and discuss the issues.

Objectives

After you have completed the Coding Ethics seminar, you will:

- Understand the importance of ethical behaviour in software development.
- Understand what is ethical behaviour for you as an individual programmer.
- Understand what is ethical behaviour for you as a team member.
- Understand that quality is an ethical choice.
- Evaluate the 9 promises of the Programmers Oath and how they apply to your work environment.

Intended Audience

You should attend the Coding Ethics seminar if you are involved in software development in any way: as an analyst, designer, developer, tester or manager.

Prerequisites

There are no prerequisites for this course, but you will benefit most if you have some coding experience or have worked with developers on IT projects.

Course Contents

Why Ethics Matter

- The power of the programmer.
- The responsibility of the programmer.
- The consequences of unethical coding.

Codes of Ethics

- The ACM / IEE Software Engineering Code of Ethics and Professional Practice.
- The 9 promises of the Programmers Oath.
- Legal considerations.

What is Harmful Code

- Promise 1 of the Programmers Oath.
- Code that is harmful to users or the public.
- Code that is harmful to the company.
- Code that is harmful to developers.

The Ethics of the Individual Programmer

- Acknowledging personal responsibility.
- Commitment to quality work.
- Integrity and independence.
- Improving personal productivity.

- Continual code improvement.
- Life-long learning.

The Ethics of the Team Member

- Estimates, promises and deadlines.
- Contributing to team productivity.
- Knowledge sharing and support.

The Ethics of Quality

- Importance of coding standards and processes.
- Components of a coding standard.
- Code and documentation reviews.
- Version control.
- Testing and proof of correctness.
- Why documentation matters.

Additional considerations

- User privacy and security.
- The POPI Act.
- Respecting intellectual property and contributions.
- Client confidentiality.
- Broader social concerns.

****** *The lecturer reserves the right to modify the contents of the course to suit the needs of the delegates.*