

Corporate IT Training House

## **Common Track**

**Duration: 1 Day (8hrs Each)** 

Subject	Duration
Clean Code Best Practices	1 Day

## **Program and Detailed Outline:**

Clean Code Best Practices: 1 Day (8hrs)

## **Course Outline:**

## **Day 1:**

- Developing a program
  - o Qualities of good programs.
  - o Trade-offs involved in software development.
  - o Understanding and applying simple algorithms.
  - o Introduction to Refactoring.
- Essentials of a readable program
  - o Meaningful names for variables, functions, classes, etc
  - o Names from problem domain, solution domain
  - o Formatting: horizontal and vertical
  - o Explain yourself in code vs comments.
- 'Clean' Functions
  - Writing small functions.
  - o 'Do one thing' principle.
  - o One level of abstraction.
  - o Passing arguments to functions.
  - Command query separation.
  - o Dealing with exceptions.
- Handling dependencies & instantiation in clean code
  - Separation of construction and use.
  - o Dependency injection.
  - o Cross cutting requirements.
- Technical Debt and Smells
  - o Understanding technical debt.
  - o Addressing technical debt.
  - o Code smells.
  - o How to deal with the code smells.
- Lab Session: on concepts covered in the session.