

## Day 1: The C language

- History
- The ISO-C language standard(s)
- Conformance
- Language Extensions
- Coding Standards & Style Guides
- Safe language subsets

## Introduction to MISRA-C

- MISRA-C:1998
- MISRA-C:2004

## Overview of MISRA-C: Compliance Module

- QAC Features
- Manual Code Inspection
- Product Overview
- Cross-Module Analysis
- Metrics
- Code Visualisation
- Reports
- IDE Integration

## Compliance

- Rule Classification
- Deviations
- Automated enforcement
- Compliance Matrix
- Additional Rules

- Static vs Dynamic
- Legacy code

#### Day 2: MISRA-C:2004

- Review of all the rules in detail

#### Day 3: QAC Overview and Features

- What Does QAC do?
- Tool Configuration
- Setting up a new project
- Performing Module and Cross-Module Analysis
- Code Metrics
- Code Visualisation
- Reports

#### QAC enforcement of MISRA-C

- The role of M2CM
- Configuration
- Message system structure
- Secondary Analysis
- Severity of Messages
- Enforcement Matrix

#### QAC Internals and Integration

- QAC Command Line Interface
- Development Process Integration
- Analysing non-standard C code