

# Effective MISRA Compliance

A professional training course delivered by BUGSENG for all managers involved in the negotiation, planning, execution and assessment of MISRA requirements, with compounding benefits for the entire organization

6  
hours

|               |                                        |
|---------------|----------------------------------------|
| 09:00 - 09:05 | Introduction to the course             |
| 09:05 - 10:30 | Introduction to the MISRA Guidelines   |
| 10:30 - 11:00 | Break • possibly chat with instructors |
| 11:00 - 12:30 | MISRA Compliance:2020                  |
| 14:00 - 15:30 | MISRA Guidelines and Deviations        |
| 15:30 - 16:00 | Break • possibly chat with instructors |
| 16:00 - 17:00 | Tools and Processes                    |
| 17:00 - 17:30 | Q&A                                    |

## MISRA Training Requirements

MISRA compliance is becoming a more stringent requirement in all industry sectors where critical systems are being developed.

Developers and QA people need to receive appropriate MISRA training: this is well known and mandated by MISRA.

What about managers?

It turns out that increasing the awareness, confidence and competencies of managers about all the high-level aspects of MISRA compliance can dramatically improve the performance of the overall organization.

## Managing MISRA Compliance

MISRA compliance needs careful managing at all stages of the project lifetime.

**Negotiation** MISRA compliance will typically be one requirement in a contract between the acquirer

(the organization commissioning the project), and the supplier (the organization developing the code).

The negotiation activity has far-reaching consequences: increased costs, project delays, and even litigations and consequent damages. Managers in charge definitely need to know what *Guideline Recategorization Plans* and *MISRA Permits* are and how to take advantage of them.

**Planning** MISRA compliance requires proper allocation of resources and attention to the project schedule. When things are done properly, MISRA compliance delivers more than what it consumes, but errors are paid dearly.

**Execution** Development teams working at a project that is meant to reach MISRA compliance need knowledgeable managers who can effectively assign responsibilities, monitor progress, approve deviations, and have the final word on the *comply vs deviate* dilemma.

Failure in this area often results in friction within the

team, project delays and/or, ironically, decreased code quality.

**Assessment** What are the constituents of a defensible MISRA compliance argument? In other words: What should the supplier provide? What should the acquirer accept or not accept? If no mistakes were done during negotiation and planning, things will go smoothly here; although the acquirer will still have to check the MISRA compliance argument. And the acquirer will likely play the supplier role if a certification authority is involved.

## Course Topics

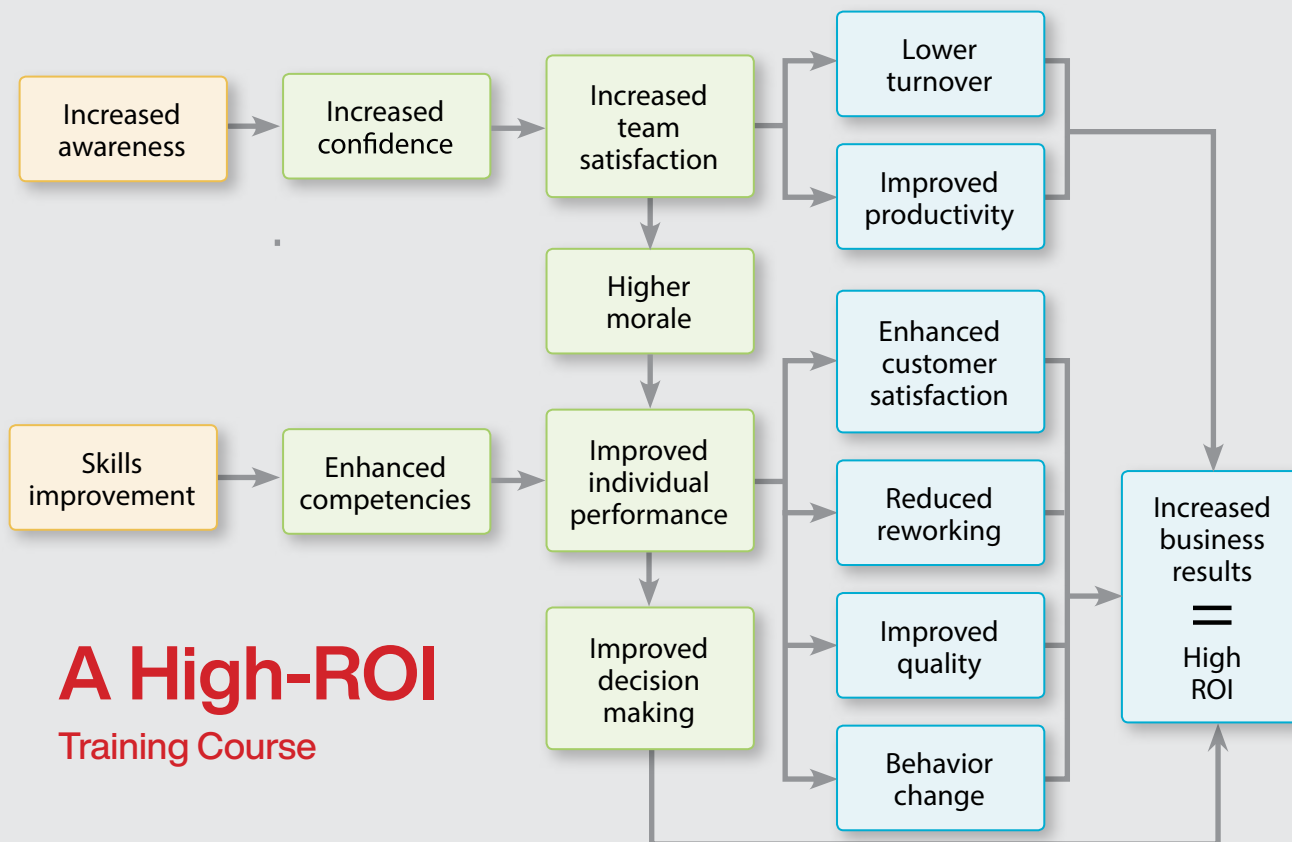
The course is based on MISRA Compliance:2020, the official document defining the very meaning of “MISRA compliance.”

It joins the presentation of the key concepts with concrete examples and practical demonstrations.

Immediate  
Outcomes

Short-Term  
Benefits

Long-Term  
Value



## A High-ROI Training Course

Training managers is well known to be both crucial and highly effective. When manager capabilities do not match employee expectations, bad things happen: there is truth in the popular saying “employees don’t quit their job; they quit their managers.” In contrast, well-trained managers induce better decision making and much improved employee engagement,

which, directly and indirectly, positively affect all aspects of the business. This course is a perfect match to the “Effective MISRA C” training course: attending managers will learn how to leverage the employees and company resources to support and bring out the best in a team with MISRA compliance objectives.

### Schedule

09:00 - 09:05 Introduction to the course  
09:05 - 10:30 Introduction to the MISRA Guidelines  
10:30 - 11:00 Break (possibly chat with instructors)  
11:00 - 12:30 MISRA Compliance:2020  
14:00 - 15:30 MISRA Guidelines and Deviations  
15:30 - 16:00 Break (possibly chat with instructors)  
16:00 - 17:00 Tools and Processes  
17:00 - 17:30 Q&A

### Language

The course can be taught in English or Italian.  
The course material is all in English.

### The Instructors

The course is taught by qualified BUGSENG instructors, in collaboration with esteemed experts including members of the MISRA C, MISRA C++, and C standardization international working groups.

### Handouts

Each participant will receive:

- Teaching material in PDF format, including a copy of MISRA Compliance:2020.
- Presentation slides used throughout the course.
- Certificate of attendance.
- One month of free email consultancy on the course topics.

### Online platform provided by BUGSENG

**bugSeng**

noshortcuts,nocompromises,noexcuses:softwareverificationdoneright

BUGSENG srl · Via Fiorentina 214/C · I-56121 Pisa, Italy  
Email: [training@bugseng.com](mailto:training@bugseng.com) - Web: <http://bugseng.com>