

## AI BASIC

No prior theoretical background is required.

Target group: e.g. interested MINT teachers, secondary school students but also apprentice and re-train people who are already in daily business.

The objectives refer to a cultural and creative integration of Robotics concepts. The goal is to enable and motivate people, to foster creativity and curiosity and that people are able to **understand** the technology and **use** AI systems and AI technology.

The graduate of the **AI Basic** training...

**1. Is able to describe AI, to recognize AI systems and to distinguish AI systems from other concepts and systems.**

- I can describe artificial intelligence:
- I can recognize if a given system is based on artificial intelligence

**2. Knows the areas of application of AI and their use-cases and is aware of the technical, social, ethical and legal implications.**

- I can name areas of AI and give specific examples of AI applications:
- I can understand technical, social, economic ethical and legal implications of the application of AI:

**3. Is able formalize a problem and is able to apply algorithms and data structures to solve this problem.**

- I am aware of different problem representations.
- I am able to formalize a search problem.
- I can explain basic data structures.
- I can use algorithms to solve a search problem.
- I can assess the basic properties of search algorithms.

**4. Is able to design and practically implement a simple AI system for a given application.**

- I am able to translate an algorithm into code: programming paradigms, using libraries, ...)
- I can implement a simple AI system.
- I can assess the correctness of my solution.