

Training program:

## **Modern standards in JavaScript**

### Info:

<b>Name:</b>	<b>Modern standards in JavaScript</b>
<b>Code:</b>	<b>JS-ESx</b>
<b>Category:</b>	JavaScript
<b>Target audience:</b>	developers architects
<b>Duration:</b>	3 days
<b>Format:</b>	33% teoria, 66% ćwiczenia

---

# Training program

## 1. Basics and amp; Syntax

1.1. var, let and amp; const keywords

1.2. Symbols

1.3. Destructuring Objects and amp; Arrays

1.4. Spread and Rest Operators

1.5. Default Parameters

1.6. Template Literals

1.6.1. Tagged template literals

## 2. Arrow functions

2.1. Lexical Scope

2.2. ES5 functions vs ES6 arrow functions

2.2.1. Managing function context (this)

2.3. Advanced usage, common mistakes

2.4. Functional programming with Arrow Functions

## 3. Classes

3.1. Prototypal inheritance in ES6 classes

3.2. Class Properties

3.3. ES5 constructors, ES6 classes, TypeScript classes – comparison

3.4. OOP and FP – two approaches in JavaScript

## 4. Iterators

4.1. for..of loops

4.2. Iteration Protocol

4.3. Generators

## 5. Modules

5.1. Imports, exports

5.2. ESM, CommonJS, AMD - comparison

## 6. Promises

6.1. Asynchronicity in JS (event loop, message queue, ...)

6.2. Basic promise usage

6.3. Parallel and Sequential processing

6.4. Aggregate operations

6.5. Deferred anti-pattern (deferred vs ES6 promise)

6.6. Best practices and anti-patterns

6.7. ES6 promises vs jQuery, bluebird

## 7. Async Functions

7.1. Coroutines

7.1.1. coa, bluebird.coroutine

7.2. Async Await

## 8. Automation

8.1. Transpiling with Babel

8.2. Unit Testing with Karma preprocessors