

 Laboratory course**DURATION**  
**2 DAYS****REGULAR FEE**  
**955 \$****PREFERENTIAL FEE**  
**860 \$**

## Objectives

To provide the knowledge and skills required to make effective use of the features of Node JS to develop Web applications based on Express. You will also learn how to use NoSQL data bases.

## Targeted audience

Web developers.

## Prerequisite

Knowledge of [JavaScript](#) (Course WE105) or [jQuery](#) (Course WE138) and experience with Web development.

## Content

- Introduction to Node.JS
- The server, request and response objects
- Definition of a module: exports and scope
- The file system access module
- Operations, scripting and command tools
- Supporting multiple concurrent connections
- Debugging techniques
- Blocking vs. non-blocking programming models
- Error propagation and CPS (Continuation-Passing Style)
- Events from the server and long polling
- Client/server application programming
- Real-time programming with WebSockets and SocketIO
- The event broadcaster
- Use in the browser
- Techniques for simplifying asynchronous programming
- Promise and Deferred
- The streams library
- The Express framework: routing, MVC and alternatives
- Internationalizing an application
- Accessing SQL and NoSQL databases

440 René-Lévesque West Blvd, 5th Floor, Montreal (Quebec) H2Z 1V7

Phone: 514 380 0380 | toll free: 514 380 0380 (Mtl) / 418 681 0865 (Qc) / 1 877 380 8228

<http://www.technologia.com/en/information-technology/web-development/basic-and-advanced-web-concepts/nodejs/>

Contact Us: [formation@technologia.ca](mailto:formation@technologia.ca)

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## Select the training date\*

Montreal	December 5 to December 6 2019
Quebec City	December 12 to December 13 2019
Montreal	February 3 to February 4 2020
Montreal	June 3 to June 4 2020
Quebec City	June 8 to June 9 2020