



- CYU – Check Your Understanding
- LOTW – Learning On The Walls
- PPR – Participant Progress Report
- PTS – Post Training Support (Web)

# NODE JS

Duration 4 Days

## INTRO TO NODE.JS

- ❖ RAM vs. I/O latency
- ❖ Blocking vs. Non-Blocking
- ❖ Event-driven Programming
- ❖ JavaScript Closures
- ❖ Event Loop
- ❖ Blocking The Event Loop
- ❖ Node.js Philosophy

## INSTALLING NODE.JS

- ❖ Download and Install
- ❖ Node REPL
- ❖ First Node Application
- ❖ References

## MODULES AND NPM

- ❖ Anatomy of a module
- ❖ Private code
- ❖ Accessing and using modules
- ❖ npm commands
- ❖ package.json

## THE CALLBACK PATTERN

- ❖ What are callbacks
- ❖ Callback-last
- ❖ Error-first

## EVENT EMITTER

- ❖ When to use Event Emitters
- ❖ Binding Functions to Events
- ❖ Creating an Event Emitter

## ERROR HANDLING

- ❖ Callbacks: Error-first
- ❖ Errors in Event Emitters
- ❖ Uncaught Exceptions
- ❖ Using Domains

## BUFFERS

- ❖ Why Buffers exist
- ❖ Creating Buffers
- ❖ Reading Buffers
- ❖ Writing Buffers
- ❖ Manipulating Buffers

## STREAMS

- ❖ What are streams
- ❖ Read Stream API
- ❖ Write Stream API
- ❖ Flow Control
- ❖ Piping
- ❖ Duplex Stream
- ❖ Transform Stream