

# Wind River Customer Education Services

## COURSE DESCRIPTION

### Platform for Consumer Devices

Wind River Customer Education Services allows clients to unleash the power of Wind River's tools by creating developers skilled in Wind River technology. For developers, Wind River Customer Education Services provides the knowledge you need to meet your commitments, exceed your company's expectations, and excel at developing solutions. With Wind River Customer Education Services, you will develop and run your application software faster, better, at lower cost, and more reliably.

### Course Description

The Platform for Consumer Devices course provides engineers with a fast, cost-effective way to acquire the knowledge necessary to configure and use various components of Platform CD.

After this workshop, students will be able to:

- Take a requirement specification to a working application
- Design, develop, debug, build, and test real-time applications with VxWorks
- Efficiently use the tools and functionality of VxWorks

### Who Should Attend

- Developers planning to port a BSP to a new board on a supported architecture
- Device driver writers
- Application programmers interested in seeing what goes on "under the hood" (i.e., at the hardware level)
- Senior engineers who want to decide on a final production image of their product

### Prerequisites

- User-level familiarity with the host operating system on which Platform for Consumer Devices will be installed
- One year C or C++ programming
- Basic understanding of operating systems and debugging techniques
- Functional knowledge of system design

### Prerequisite Courses

- Real-Time Programming for Embedded Systems
- Tornado® 2.2 for VxWorks® 5.5

Course Title	Platform for Consumer Devices
Duration	3 days
Format	Instructor-led lectures and hands-on lab sessions
Price	Contact your local sales representative

### Related Courses

- Tornado® 2 Board Support Packages
- Tornado® 2 Device Driver

### Global Reach of Wind River Customer Education Services

- 3,000 students per year
- 320 classes delivered per year
- 34 instructors worldwide
- Access to 250 subject matter experts
- 22 training centers worldwide
- 20+ years device software experience

On-site courses are conducted at your location and include the use of preconfigured laptops and target boards, plus shipping and travel costs. Visit [windriver.com/training](http://windriver.com/training) for registration and schedule information.

Wind River reserves the right to change course topics, schedules, and prices at any time without notice. Please refer to [www.windriver.com/training](http://www.windriver.com/training) for the most current information.

## Topics

- Wind Net IPv6
- Wind Net PPP
- Wind Net IPsec and IKE
- Wind Manage SNMP
- Wind Manage WEB
- Wind Net 802.11b Station
- Wind Net 802.1X Supplicant
- Wind Media Library
- USB
- TrueFFS

## Agenda

### Day 1

#### Overview

- Platform CD Components Overview; Available Help Resources

#### Wind Net IPv6

- Configuration, Sockets; Device Instances

#### Wind Net PPP

- Remote Access Framework; Demo PPP Client or Server Configuration (including PPPoE Configuration); Multilink PPP

#### Wind Net IPsec and IKE

- IPsec Overview (Authentication Header, Encapsulating Security Payload); Wind Net IPsec and IKE Configuration

### Day 2

#### Wind Manage WEB

- Component Overview; Configuration (Wind Manage WindMarks, Wind Manage Integration Tool – WMIT)

#### Wind Manage SNMP

- Component Overview; Method Routines; Using the MIB Compiler 2

#### Wind Net 802.11b Station

- BSP Porting Example; Interface Configuration

### Day 3

#### Wind Net 802.1X Supplicant

- 802.1X Authentication Flow; 802.1X Use with 802.11; EAP Methods; 802.1X Supplicant Configuration and Initialization

#### Wind Media Library

- Wind Media Configuration Tool; BSP Configuration for Wind Media; Wind Media Input Message Handling; Wind Media Graphics Driver Overview

#### USB

- USB Host Driver (USBD); USB Host Stack Configuration; USB Peripheral Stack

#### TrueFFS

- Configuration; TrueFFS Internals and Common Flash Interface; Flash Boot Device; TrueFFS

## WIND RIVER