



# WIND RIVER LEARNING SUBSCRIPTION

## DESCRIPTION

The Wind River® Learning Subscription is the perfect choice for busy engineers who want to get 24/7 access to training resources in a single, annual subscription. Engineers are able to tailor their learning experience to their specific needs at their own pace, watching individual videos or taking an entire course anywhere, anytime.

The Wind River Learning Subscription includes the following:

- Online videos, labs, and quizzes that help build your knowledge and skills
- Expert-level instruction, along with techniques and workflows to help you to develop your own solutions
- Access to 100 hours of your own virtual lab environment to gain hands-on experience with Wind River products
- 24/7 access to training delivered by top Wind River experts and certified instructors
- Subscriptions for individual learners up to enterprise-level customers who need to train global teams

For optimum retention and increased productivity, the Wind River Learning Subscription is combined with instructor-led training so students can take advantage of pre-class preparation and reinforce prior learning to drive the completion of critical project milestones.

## PRODUCTS SUPPORTED

- VxWorks 6 and 7
- Wind River Workbench 3 and 4
- Wind River Linux 9 and LTS
- Wind River Titanium Cloud™ R5
- Wind River Simics® 4.8

## COURSE FORMAT

- Online video learning
- Interactive quizzes to reinforce key concepts
- Hands-on lab activities performed in a virtual environment
- Learning room

## AUDIENCE

- Developers who work with Wind River technologies
- Previous instructor-led training course participants who want a refresher
- New project members on teams already using Wind River products
- Senior engineers who want to evaluate VxWorks technology

## RELATED COURSES FOR BLENDED LEARNING

- See the course catalog in [education.windriver.com](http://education.windriver.com)

## SYLLABUS

### Real-Time Programming for Embedded Systems

- Project Environment
- Project Design
- Introduction to Embedded Software
- Real-Time Programming Techniques
- Hard Real-Time

### Exploring VxWorks 7 Essentials

- Targets and Connections
- Managing Projects
- VxWorks Kernel Shell
- Real-Time Multitasking
- VxWorks Semaphores
- Real-Time Processes

### VxWorks 7 Advanced Topics

- Dynamic printf
- kprintf() Debug Function
- VxWorks Core Dumps
- VxWorks Exceptions, Interrupts, and Watchdog Timers
- Advanced Debugging Techniques
- Using RTP Shared Libraries
- Using VxWorks Time Partition Scheduling

**Exploring VxWorks 6**

- Application Tips
- BSPs
- Debugging
- Device Drivers
- Networking

**Wind River Linux LTS Essentials**

- Introducing Wind River Linux
- Becoming Productive with Wind River Linux
- Working with User Applications Using an SDK
- Working with Linux Kernel Updates
- Modifying the Linux Kernel Packages
- Understanding Layers and Templates

**Wind River Linux 8 to 9 Migration**

- Introducing Wind River Linux 8 to 9 Migration
- Platform Development in Wind River Linux 9
- Migrating a Platform Project to Wind River Linux 9

**Understanding Titanium Cloud R5 Principles and Use**

- Titanium Cloud Operation
- Titanium Cloud Diagnostics

**Titanium Cloud R5 Use Cases**

- Titanium Cloud Security Topics
- Titanium Cloud Debugging Topics

**Wind River Simics 4.8 Essentials**

- Introduction to Simics
- Using Simics
- Inside Simics
- Debugging
- Optimizing Simulation Performance
- Multi-target Simulation and Networking

**GLOBAL REACH OF WIND RIVER EDUCATION SERVICES**

With more than 30 years of experience delivering software for intelligent systems, Wind River provides education services in every region of the world. Our private classes can be tailored to your needs by adding or removing topics from multiple courses. If you have more specific project challenges, Wind River Mentoring provides coaching by experienced engineers to help you integrate Wind River solutions into your environment. And when you're too busy to attend a whole class, our On-Demand Learning options provide around-the-clock access to advanced and specialized topics. All of our education services are led by expert engineers who are closely connected to the Wind River technical community for access to specific expertise.

**CONTACT US**

For more information about Wind River Education Services, visit [www.windriver.com/education](http://www.windriver.com/education).

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