



VXWORKS KNOWLEDGE CERTIFICATION PROGRAM

CERTIFICATION NAME:

VxWorks Embedded Application Developer: Professional

Overview: The Wind River® Knowledge Certification program is designed to allow candidates to demonstrate their knowledge and skills with Wind River products and to provide confidence to Wind River customers and partners that their employees have been independently verified as experts, with a goal of improved productivity and reduced costs.

Audience: The VxWorks® Embedded Application Developer responsible for the design and development of software programs and applications on the VxWorks operating system works with cross-functional teams to define requirements, write code, conduct testing, and troubleshoot embedded systems applications running VxWorks. The job requires skills in C programming and understanding of the relevant operating systems and debugging techniques.

Exam topics:

- **VxWorks Architecture (10%):** Conceptual knowledge of the operating system architecture, kernel objects, and their use in application development and troubleshooting
- **Application Testing (24%):** Knowledge and skills in using VxWorks features to test and validate application functionality in both simulated and real target environments
- **General Application Development (18%):** Proficiency in coding embedded applications in VxWorks, and knowledge of the basic embedded development workflow
- **Troubleshooting (10%):** Knowledge of how to use VxWorks features and tooling to handle exceptions and troubleshoot application issues
- **Development Environment Setup (4%):** Skills in setting up a VxWorks development environment and connecting to targets
- **Use of the IDE in Development (6%):** Correct use of the VxWorks IDE components in the application development and deployment process
- **Use of Command Line Utilities (6%):** Correct use of the VxWorks command line utilities in the application development and deployment process
- **Use of the VxWorks APIs (8%):** Correct use of the VxWorks APIs in the application development and deployment process
- **Application Deployment (4%):** Skills in deployment of VxWorks applications to simulated and real target environments
- **Downloadable Kernel Module Development (6%):** Knowledge in creating downloadable kernel modules to optimize the VxWorks environment
- **Use of VxWorks Containers (4%):** Knowledge of the correct use of the VxWorks container for modern embedded application development

Exam duration:

Approximately 90–120 minutes

Number of questions: 60

Exam price:

\$850 (discounted to \$350 as an add-on to Training Purchase)

Certification validity period:

3 years

Number of retries included

in the price: 1

Get Ready

1. Prepare and practice.
2. Schedule the exam.
3. Exam delivery and proctoring: In the interests of maintaining the integrity of the certification and ensuring fairness, the exam will be administered as an online (remote) test and will be proctored according to our certification integrity policies. Candidates are expected to do the work on their own, without any assistance, references, or communication with others. Any violation of the proctoring rules will result in an invalid test result.
4. Exam review: Exams are reviewed by an experienced third-party proctoring service to ensure that they are administered securely.
5. Delivery of test results will arrive within 72 hours.
6. Pass your exam and earn your certification badge.

