INVENTATEQ
LEARN SKILLS • GET PLACED

MASTER VXWORKS COURSE With Placement

Build In-Demand Professional Expertise with Real-Time Hands-on VxWorks Training

BEST RATED ON TOP PLATFORMS

Google Reviews ★★★★★ · Trustpilot ★★★★★ · Sulekha ★★★★★

COURSE BENEFITS

- 100% Practical & Real-Time Hands-on Labs
- End-to-End Capstone Implementation Projects
- Industry Recognized Certification Preparation
- 100% Dedicated Placement Support in MNC's & Mock Interviews

15+	500+	25K	15K
YEARS OF EXCELLENCE	HIRING PARTNERS	STUDENTS TRAINED	STUDENTS PLACED

Chat on WhatsApp
FREE Career Counselling
+91 85500 00909

YOUR FUTURE
STARTS HERE !

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ARE YOU FACING THESE CHALLENGES ?

TOO MUCH THEORY
NO PROJECTS
SKILL GAP
NO GUIDANCE
?

- Still searching for your first job after graduation?
- Worried about the Gap? And don't know how to start your career?
- Stuck in a low-salary job? and seeking for better growth opportunities?
- Fear of switching to an IT career from a non-IT background
- Not getting interview calls despite applying to 100+ jobs?

How Inventateq Helps You

Waiting Ends. Careers Begin.
Build job-ready skills. Start applying with confidence.

Turns Gaps into Comebacks
Close skill gaps. Rebuild your career

Break Free. Move Forward
Learn in-demand skills. Take your next career step.

Doubt Out. Confidence In.
Practice real skills. Walk into interviews prepared.

Turn Rejections into Chances
Turn every setback into skills employers value.

Be Smart Learn AI
Learn AI tools. Work smarter. Stay updated

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ABOUT INVENTATEQ

Inventateq is a leading IT training and placement company committed to transforming learners into Industry ready professionals

Our Mission
To deliver high-quality education, practical slots and career opportunities that empower individuals to achieve their dreams

Our Vision
To be a globally recognised training company known for innovation, quality and impactful learner outcomes.

Why Thousands Choose Inventateq?

15+	500+	25,000+	15,000+
Years of Excellence	Hiring Partners	Students Trained	Students Placed

We Collaborate With

Deloitte. · Capgemini · amazon · HCL · Tech Mahindra

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WHY LEARN VXWORKS ?

Enterprises worldwide are actively hiring certified VxWorks professionals to drive critical business operations, digital transformation, and modernization.

CAREER SCOPE OF VXWORKS

Exponential Industry Demand
Rapid enterprise adoption across global IT firms, MNCs, and technology centers

Premium Salary Compensation
Command competitive compensation packages with rapid growth milestones

Cross-Industry Opportunities
Versatile skill set applicable across technology, consulting, finance, and core sectors

Future-Proof Career Growth
Long-term job security supported by ongoing digital modernization and tooling investment

Global Certification Pathways
Direct alignment with recognized industry certifications to validate your competence

Worldwide Job Prospects
Open doors to roles in major Indian tech hubs as well as international remote positions

INDUSTRY-RECOGNIZED CERTIFICATION

INVENTATEQ
CERTIFICATE
OF ACHIEVEMENT
This Certificate is proudly present to
Gaurang Ahirrave
has successfully completed the Python Course and demonstrated outstanding performance, achieving an A Grade.
This certificate recognizes the successful completion of the program requirements during the period from
August 01, 2026 - August 18, 2026
scan to verify
ISO
SIGNATURE

QR Verified · Globally Valid · ISO 9001:2015

Direct Business Impact. Fast-Growing Industry Demand. High Career Mobility.

Average VxWorks Professional Salary in India

₹5.5 LPA – ₹18 LPA

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WHY INVENTATEQ ?

Because we have placed over 15,000+ students and we can place you as well

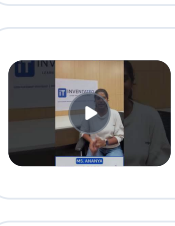
STUDENT PLACEMENTS

- 100% Placement Assurance Support
- 500+ Top Tech Hiring Partners
- Resume & LinkedIn Optimization
- Industry Mock Technical Interviews
- Unlimited Interview Calls Until Placed

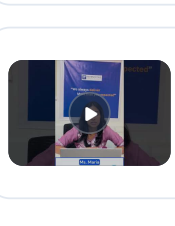
COURSE & PLACEMENT VIDEOS

Student Genuine Feedback
AWS Course in Bangalore, Best AWS Training &a...
Inventateq Bangalore Reviews
Watch Video

Practical Training Success
Inventateq Reviews & Student Genuine Feed...
Industry Tech Career
Watch Video



Placement Story
Ananya's Placement Success Story | AI Course ...
Campus to MNC Offer
Watch Video



Interview Skills & Growth
Inventateq HR Practical Training Student Succ...
Free Student Masterclass
Watch Video

> **At Inventateq, Your Success is Our Mission !**

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GUARANTEED PLACEMENT SUPPORT

We don't just teach, we prepare you for the real world!

- Aptitude Training
- Technical Training
- Mock Interviews
- HR Interview Preparation
- Resume Preparation
- Cover Letter Preparation
- LinkedIn Profile Optimisation
- Job Portal Access
- Placement Drives & Hiring Events

OUR RECRUITMENT PARTNERS

TATA · Infosys · wipro · Capgemini · Tech Mahindra · LARSEN & TOUBRO · HCL TECH · accenture

OUR PLACEMENT STATS

Our placement record reflects consistent growth, with students securing opportunities across leading companies in diverse industries.

15,000+	500+	95%	6 LPA
Students Placed	Companies Hired	Placement Ratio	Average Package

Check Most Recent Placements

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CAREER PROGRESSION

Job responsibilities, technical competency and portfolio evidence for each role.

ROLE PATHWAY	TYPICAL RESPONSIBILITIES	PORTFOLIO PROOF
VxWorks Associate	Manage core Embedded Systems tasks, configure tooling, and support delivery.	Practical Embedded Systems setup files, exercise scripts, and documentation.
VxWorks Specialist	Build practical Tasks workflows, implement features, and resolve issues.	Functional Tasks modules, workflow configs, and practical deliverables.
Senior VxWorks Lead	Lead VxWorks technical delivery, design solutions, and set standards.	Complete VxWorks capstone artifacts, technical blueprints, and reports.

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SKILLS ROADMAP

Progress from core foundations to production-ready enterprise workflows.

MILESTONE	PRACTICAL OUTPUT	REVIEW EVIDENCE
Milestone 1 (Foundations)	Master fundamental Embedded Systems concepts, environment setup, and tools.	Configured Embedded Systems workspace and verified practice exercises.
Milestone 2 (Implementation)	Develop practical Tasks workflows and functional domain modules.	Working Tasks project modules and validated practice outputs.
Milestone 3 (Advanced Workflows)	Implement advanced Memory Management features, integrations, and optimizations.	Validated Memory Management configurations and technical review outputs.
Milestone 4 (Production Capstone)	Deliver an end-to-end VxWorks capstone project and technical review.	Complete VxWorks project portfolio artifact and defense.

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DETAILED MODULE PLAN

12 in-depth modules • 3 Months Duration • Hands-on practical training

1 MODULE 1 — Embedded Systems & C

- Programming
- Embedded systems fundamentals
- Embedded software
- Hardware vs software
- Microprocessors vs microcontrollers
- Memory concepts
- Registers
- Interrupts

GUIDED LAB
Complete a guided practical exercise on Programming and verify your results.

INTERVIEW & ASSESSMENT
Explain the core purpose of Programming and how you use it in real job roles.

2 MODULE 2 — Real-Time Operating System

- Fundamentals
- Operating-system fundamentals
- Kernel
- Processes
- Threads
- Scheduling
- Context switching
- Interrupts

GUIDED LAB
Complete a guided practical exercise on Fundamentals and verify your results.

INTERVIEW & ASSESSMENT
Explain the core purpose of Fundamentals and how you use it in real job roles.

3 MODULE 3 — VxWorks Architecture &

- Development Environment
- Introduction to VxWorks
- VxWorks architecture
- Kernel
- System initialization
- Application development
- Target system
- Host development environment

GUIDED LAB
Complete a guided practical exercise on Development Environment and verify your results.

INTERVIEW & ASSESSMENT
Explain the core purpose of Development Environment and how you use it in real job roles.

4 MODULE 4 — Tasks & Multitasking

- Tasks
- Task states
- Task creation
- Task deletion
- Task suspension
- Task resumption
- Task priorities
- Scheduling

GUIDED LAB
Complete a guided practical exercise on Tasks and verify your results.

INTERVIEW & ASSESSMENT
Explain the core purpose of Tasks and how you use it in real job roles.

5 MODULE 5 — Inter-Process Communication &

- Synchronization
- IPC
- Message queues
- Pipes
- Shared memory concepts
- Signals
- Events
- Synchronization

GUIDED LAB
Add interactive button clicks and dynamic form validation using simple JavaScript.

INTERVIEW & ASSESSMENT
Explain how JavaScript makes static web pages interactive for users.

6 MODULE 6 — Interrupts, Timers & Real-Time

- Events
- Hardware interrupts
- Interrupt service routines
- Interrupt latency
- Interrupt handling
- Timer concepts
- Periodic tasks
- Event-driven programming

GUIDED LAB
Add interactive button clicks and dynamic form validation using simple JavaScript.

INTERVIEW & ASSESSMENT
Explain how JavaScript makes static web pages interactive for users.

7 MODULE 7 — Memory Management & System

- Resources
- Memory architecture
- Stack
- Heap
- Static memory
- Dynamic memory
- Memory allocation
- Memory leaks

GUIDED LAB
Complete a guided practical exercise on Resources and verify your results.

INTERVIEW & ASSESSMENT
Explain the core purpose of Resources and how you use it in real job roles.

8 MODULE 8 — VxWorks I/O System & Device

- Drivers
- I/O architecture
- Devices
- Drivers
- File descriptors
- Device interfaces
- Serial communication
- Device Driver Concepts

GUIDED LAB
Complete a guided practical exercise on Drivers and verify your results.

INTERVIEW & ASSESSMENT
Explain the core purpose of Drivers and how you use it in real job roles.

9 MODULE 9 — Networking with VxWorks

- Networking fundamentals
- TCP/IP
- UDP
- Ethernet
- IP addressing
- Ports
- Sockets
- VxWorks Networking

GUIDED LAB
Complete a guided practical exercise on Networking fundamentals and verify your results.

INTERVIEW & ASSESSMENT
Explain the core purpose of Networking fundamentals and how you use it in real job roles.

10 MODULE 10 — BSP, Boot Process & Hardware

- Integration
- Board Support Package
- BSP architecture
- Boot process
- Bootloader concepts
- Hardware initialization
- CPU initialization
- Memory initialization

GUIDED LAB
Create reusable functions to perform calculations and organize them into clean files.

INTERVIEW & ASSESSMENT
Explain why programmers use functions to avoid writing duplicate code.

11 MODULE 11 — Debugging, Testing &

- Performance Optimization
- Debugging methodology
- Logs
- Traces
- Task monitoring
- CPU utilization
- Memory monitoring
- Timing analysis

GUIDED LAB
Complete a guided practical exercise on Performance Optimization and verify your results.

INTERVIEW & ASSESSMENT
Explain the core purpose of Performance Optimization and how you use it in real job roles.

12 MODULE 12 — Advanced VxWorks & Industry

- Capstone
- Advanced Topics
- Real-time system architecture
- Fault tolerance
- High availability concepts
- Multi-core systems
- SMP concepts
- Performance optimization

GUIDED LAB
Complete an end-to-end practical project bringing together everything you built in this course.

INTERVIEW & ASSESSMENT
Present your completed project and explain your key design decisions with confidence.

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REAL-WORLD PORTFOLIO PROJECTS

Practical industry scenarios, tools applied, and demonstrable project outcomes.

Project 1: Capstone

What it is: Set up the core Embedded Systems environment and configure essential business settings.
What you do: Initialize base configurations, create clean templates, and verify workflow controls.
Tools used: VxWorks, Embedded Systems, Programming
Project outcome: Working project foundation configured and tested according to best practices.

Project 2: Advanced Topics

What it is: Build practical VxWorks Architecture modules to handle everyday business operations.
What you do: Create core functional components, validate input data, and prevent common errors.
Tools used: VxWorks, VxWorks Architecture, Development Environment
Project outcome: Functional business module ready to run and demo with zero manual errors.

Project 3: Real-time system architecture

What it is: Connect Inter Process Communication with Synchronization to automate data and team workflows.
What you do: Set up automated pipelines, link required services, and run end-to-end tests.
Tools used: VxWorks, Inter Process Communication, Synchronization
Project outcome: Live automated workflow pipeline documented with clear usage guides.

Project 4: Fault tolerance

What it is: Optimize Memory Management System workflows for security, speed, and reliability.
What you do: Audit performance bottlenecks, apply security rules, and optimize execution speed.
Tools used: VxWorks, Memory Management System, Resources
Project outcome: Production-grade technical deliverable ready to add to your personal portfolio.

Project 5: High availability concepts

What it is: Implement advanced Networking VxWorks features matching real industry requirements.
What you do: Configure custom settings, automate repetitive tasks, and test business logic.
Tools used: VxWorks, Networking VxWorks, Networking
Project outcome: Production-grade technical deliverable ready to add to your personal portfolio.

Project 6: VxWorks End-to-End Capstone

What it is: Build a complete, production-ready VxWorks project bringing all skills together.
What you do: Design, code, test, and document a full project workflow from scratch to launch.
Tools used: VxWorks, Debugging Testing, Performance Optimization
Project outcome: Verified capstone project ready to showcase on your resume and interview calls.

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ASSESSMENT FRAMEWORK

Module tests, practical evaluations, capstone and completion criteria.

COMPONENT	ASSESSMENT FOCUS	PASS EVIDENCE
Module Knowledge Quizzes	Core Embedded Systems principles, industry terminology, and workflow concepts	Consistent passing score across syllabus unit evaluation tests
Lab Submissions & Practice Reviews	Hands-on Tasks implementation, configuration, and practical exercises	Working lab deliverables satisfying practical evaluation rubrics
Hands-On Mini Projects	Independent problem-solving using intermediate Memory Management techniques	Functional project artifacts addressing realistic domain scenarios
Final Production Capstone	End-to-end VxWorks implementation, quality review, and delivery	Complete capstone submission with technical walkthrough review
Technical Mock Viva	Technical reasoning, troubleshooting approaches, and communication	Successfully defending project decisions in structured mock panels

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RESUME, GITHUB & LINKEDIN

Evidence-based resume writing and professional project presentation.

- Modular GitHub repository per project with setup steps, dependencies, and clean commits.
- Detailed Embedded Systems diagrams, component specifications, and end-to-end workflows.
- Visual project sheets, live demonstration walkthroughs, and verified functional outputs.
- Project documentation covering Tasks setup, configuration steps, and test notes.
- Direct resume bullet points highlighting hands-on VxWorks tools and technical outcomes.
- Structured practice for technical interview pitches, walkthroughs, and viva defense.

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OUR STUDENT

Meet the learners who turned their goals into successful careers through dedication, skill, and continuous growth.

READ REVIEWS

MS. SNEHA
Placed at Wipro (9.5 LPA)

"The practical lab sessions gave me the confidence to transition into enterprise roles. Working on real-world datasets helped me clear technical interviews effortlessly!"
Course Completed : **VxWorks Specialist**
G ★★★★★

MR. HARSHIT
Placed at Accenture (11.2 LPA)

"Inventateq's focus on industry capstone projects and mock interviews was game-changing. The mentors guided me through every real-world implementation hurdle."
Course Completed : **VxWorks Specialist**
G ★★★★★

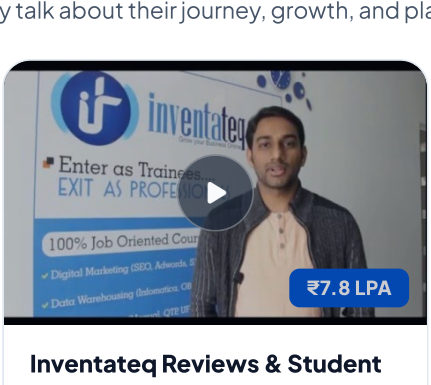
MR. KARTHIK
Placed at Capgemini (10.5 LPA)

"Moving from beginner theory to hands-on enterprise tools was seamless. The portfolio defense preparation helped me crack my MNC placement round!"
Course Completed : **VxWorks Specialist**
G ★★★★★

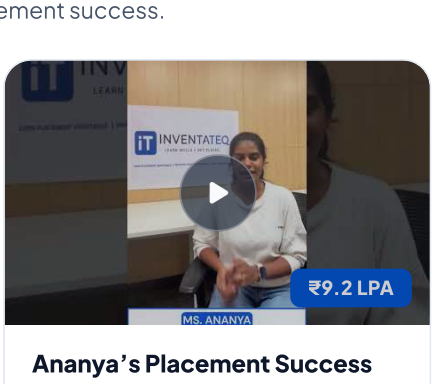
WATCH VIDEOS

Watch real stories from our students as they talk about their journey, growth, and placement success.

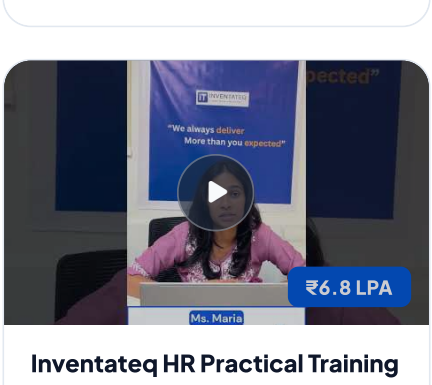
AWS Course in Bangalore, Best AWS Training & Certificate with Placement
Course Video 1 • Student Feedback
Watch Story



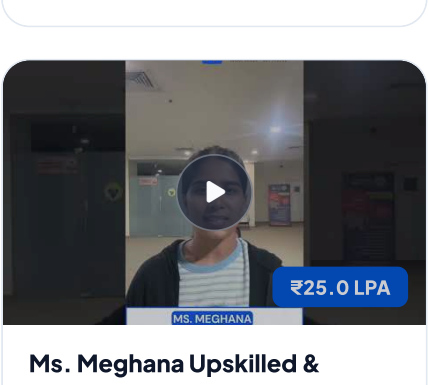
Inventateq Reviews & Student Genuine Feedback Bangalore
Course Video 2 • Student Feedback
Watch Story



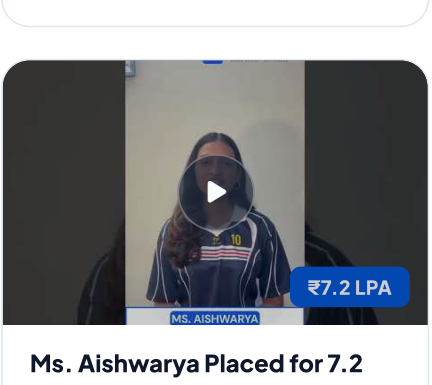
Ananya's Placement Success Story | AI Course | 6.5 LPA at Accenture| Inventateq
Course Video 3 • Student Feedback
Watch Story



Inventateq HR Practical Training Student Success & Placement
Course Video 4 • Student Feedback
Watch Story



Ms. Meghana Upskilled & Placed at 25 LPA
Top Offer • Enterprise Consultant
Watch Story



Ms. Aishwarya Placed for 7.2 LPA Package
Verified Offer • Software Dev
Watch Story

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JOB HUNTING ENDS HERE

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