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AppliedTechnologyAcademy.com

Assembly for Reverse Engineers Training

Applied Technology Academy

Many analysts and programmers have not yet learned assembly language – a skill that will save them precious time when effective analysis is needed most. Designed for malware analysts and code developers alike, Assembly for Reverse Engineers will equip you with the know-how to effectively read Assembly, review statements, and reverse machine code back to its higher-level equivalent.

LEVEL	DURATION	EXPERIENCE	AVERAGE SALARY	LABS
Intermediate	**5 days**	**2 years: Programming & Security**	**$146,617**	**Yes**

Course Overview

Assembly for Reverse Engineers (ARE) is designed for Behavioral Malware Analysts looking to make the leap into malware reverse engineers, and developers looking to explore the world of reverse engineering. The course focuses on developing techniques to improve the speed and quality of static analysis. Students will be equipped with the know-how to effectively read assembly, review statements, understand program flow, identify the influence of different compilers and reverse machine code back to its higher-level equivalent.

Course Outline

- **Lesson 1: Describe code execution within the x86 architecture**
- **Lesson 2: Demonstrate knowledge of x86 core architecture components**
- **Lesson 3: Perform static and dynamic disassembly analysis toward the reverse engineering of Windows executables**
- **Lesson 4: Infer appropriate application of dynamic analysis techniques**
- **Lesson 5: Apply IDA Pro's powerful assembly markup features to optimize analysis**
- **Lesson 6: Utilize static and dynamic analysis to interpret and document program flow**

Intended Audience

- Security Analysts who need to reverse engineer malware and other software
- Incident Responders and Forensic Investigators seeking to learn advanced investigation techniques
- Software Developers who want to write more efficient, more secure

Prerequisites

- Experience with C programming in a Windows environment
- Successful completion of Understanding Operating Systems course (or equivalent knowledge)

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Follow-on Courses

- Software Defined Networking and Network Function Virtualization
- Certified OpenStack Administrator

Ready to enroll? Call 800.674.3550 or email Info@AppliedTechAc.com — private team cohorts, GSA MAS purchasing, military credentialing funding, VA GI Bill and VR&E and student financing available.