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## Art of Exploitation – Cyber/ADE (attack, defend & exploit)

CSRgroup and our partner Solvern Innovations are proud to present the newest offering in the Art of Exploitation series of Computer Exploitation courses.

Recognizing the need for a course that can provide a more holistic approach to Computer Network Operations (CNO), CSRgroup and Solvern Innovations have developed Cyber/ADE. Cyber/ADE is a scenario driven group of network based exercises designed to provide experience and training in computer network exploitation, defense and attack.

The course is designed to allow students to break out into teams of defenders, attackers and/or exploiters so they can fully exercise all portions of their knowledge, tactics, techniques and procedures under full scope cyber operations and also to increase their skill levels and awareness in those areas which they have less experience.

Scenarios are built upon a realistic computer network environment and the individual exercises (missions) are also designed to be realistic. The exercise framework itself is tailored to be entirely customizable to each individual customer's needs and requirements.

The standard Cyber/ADE course is four (4) days in length, which includes 1 day of training and overview and 3 days of scenario driven exercises. Normally, each scenario will be 1 day in length; however, this as well as the length of the course itself can be customized based on the requirements of the individual customer.

### Pre Requisites

Students are expected to already be familiar with Computer Security (exploitation, attack & defense) techniques, system administration and packet analysis prior to taking this course. It is recommended that the student attend AOE – Bootcamp and AOE - Wiretap or a related courses prior to attending this class.

### Target Audience

Individuals involved in Computer Network Operations, Computer and Network Security, auditors, network and system administrators will benefit from attending this course.

### Contact

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## Typical Exercise Scenario:

Although each scenario can be custom designed, a typical exercise scenario would include these elements.

**BLUE CELL:** Students whose job is to “Defend the network”

**RED CELL:** Students who are expected to carry out “mission tasks” to attack or exploit specific elements of the defended network.

**CONTROL CELL:** Instructors and designated customer personnel whose job is to provide mission tasks, introduce exercise injects into the system and who monitor the overall health and activity of the network, ensuring the backbone is operational. Additionally, the instructors also provide assistance, guidance and support to the RED and BLUE teams. The CONTROL CELL also functions as “higher headquarters” for each cell, providing operational guidance and direction when required.

The Blue Cell will gain access to the network prior to the Red Cell. Their initial job will be to update the provided network map and begin to secure their system, while still allowing vital services (web, E-Mail, eCommerce, VoIP etc) to function.

The Red Cell will receive a mission execute order from the CONTROL CELL designating the mission tasks, goals and limitations along with any supporting intelligence that may be available. Upon receipt of that order, the Red Cell will begin their portion of the given scenario.

## About AOE Courses

The Art of Exploitation is a series of courses on various segments of computer exploitation. All of the courses are modular, allowing portions to be moved, subtracted, added, or even combined with other AOE courses to create a custom offering specific to the needs of the target audience. All AOE courses are built on the “Practice by Doing” method of instruction and contain many practical application labs. All AOE courses share the same philosophy; Focus on Methodology and Techniques instead of “Toolology”. Tools come and go, but if the student can learn the proper techniques and methodology, they can use many different tools to accomplish their goals and objectives.