Module 18– Objectives and Key Instruction Points

Objectives:
An important aspect of learning is reflection. This last module is intended to encourage constructive reflection that reinforces what was learned, explores areas for improvement and how the experience may influence future endeavors. Beyond these goals, this module is meant to facilitate closure.
The guiding questions are "What did I learn from participating in the CDC?", "What would I want to learn more about having participated in the CDC?", "Having participated in the CDC, what types of careers interest me?"

Handout Section 1 –
1. **Introduction**
2. **Looking back**
3. **Areas for improvement**
4. **Going Forward**
5. **Thoughts about the CDC and training materials**

Activities

Name	Objectives	Content ideas
Activity1	Answering the handout	
Activity 2		

Activity design

Handouts
Title:
Objectives:
Length: X pages
Notes:

Module 18 – CDC Lessons Learned

Note: It is not clear whether an adult will facilitate this module or whether the teams will manage the process on their own. This observation is more an issue of execution logistics as opposed to a pedagogical concern. It is unlikely that a member of the team has experienced an effective debriefing session from which to emulate. Self-managed execution will need guidance or instructions in order for it to be successful.

Introduction:
It is a common practice for responders to debrief after a major response effort. Major responses test the tools, the team, team members and their practices. Debriefing allows teams to explore what went right as well as what went wrong. This review allows the responders to develop deeper insight into the strengths and weaknesses of their tools, team, themselves and their practices. Weaknesses that are likely to be exposed again are lessons learned, and corrective actions would be planned.

The CDC is a type of response activity that relies heavily on individuals who are working under stress. Decisions and conversations at times may have been odd, wrong or somehow insulting. Although your team is not likely to remain entirely intact for another year, you will hopefully part ways on good terms. Please, as you respond to the questions on this handout, be constructive in your comments and be respectful of your teammates. Remember, everyone has something new to learn and constructive conversation helps foster receptive consideration.

Looking Back
Having completed the CDC your team has been successful. Success is not necessarily winning. This experience has made you wiser. In practice, a true security response has no winner. The response itself diverts energy and resources to a situation that threatens not improves the organization's ability fulfill its objectives.

The following questions are guiding questions for you to consider and discuss with your team:
1. What was the best part of the CDC?
2. What is the thing you are most proud of during the competition?
3. What surprised you the most about the experience?
4. What was the most interesting thing you learned from a teammate or other team?
5. What do you think were your positive contributions during the competition?
6. What do you think your team's strengths were?
7. What decision, do you think, was the most important one you made during the competition?
   a. What was the consequence of that decision?

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8. What decision, do you think, was the most important one your team made during the competition?
   a. What was the consequence of that decision?

Areas for Improvement
Having reviewed your experiences with the CDC event, you probably have ideas regarding what could be improved for the next time.

The following questions are guiding questions for you to consider and discuss with your team:
1. How did your preparations before the competition work out?
2. What was the most frequent shortcoming you encountered in the environment?
3. What was the most frequent shortcoming you encountered in yourself?
4. What was the most frequent shortcoming you observed in your team?
5. What are the top three things you want to improve in yourself based on what you experienced?
   a. Why?
6. What areas of skill and ideas would you explore if you were competing again?
7. What are the top three things you would suggest your team improve upon?
   a. Why?
8. What strategy would you suggest your team use in the future?

Going Forward
Take a moment and think about your future. The questions are intended to have you project two or three years out from now. Like IT operations and security it takes planning to achieve goals. But first, you need to identify some interesting personal goals.

The following questions are guiding questions for you to consider and discuss with your team:
1. What are your plans regarding Cyber Defense Competitions?
2. How would you describe your interests in cyber security?
3. How would you describe your interests in technology?
4. What occupation do you see yourself doing after school?
   a. Why?
5. How do you think you will accomplish your career interests?

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Feedback for your teacher, mentor and IT-Adventures
Those who organize, plan, design and execute the CDC educational program would like to hear from you. Your input will help by reinforcing what you valued in the program, help with addressing current weaknesses and help make the program better by you sharing new ideas for what the program could be.

The following questions are guiding questions for you to consider and discuss with your team. If you would like to ensure that you ideas are shared beyond this session, write them down and give them to your teacher, mentor or email them to studentfeedback@it-adventures.org.

1. What is the most interesting thing you learned from your participation in the Cyber Defense program?
2. What would you recommend to a friend who would like to participate in the Cyber Defense program next year?
    a. Why?
3. What was the one thing your teacher did you appreciated the most?
4. What was the one thing your mentor did you appreciated the most?
5. What suggestions do you have for your teacher and/or mentor for next year?
6. How would describe your overall experience in the Cyber Defense program?
7. What suggestions do you have for those who prepare the Cyber Defense teaching materials?
8. What suggestions do you have for those who run the Cyber Defense Competition?

Thank you for your participation this year. We look forward to your participation in future Iowa State University events and educational opportunities.