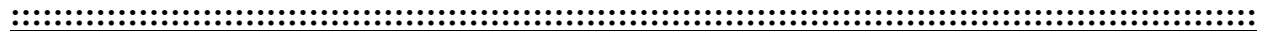


Quarterly Cybersecurity BILT Meeting January 15, 2014
Meeting Minutes



Welcome

John Sands – I’d like to welcome everyone. As you know, we have some unfinished business so we’re going to go through a couple of items. We’ll go through roll call so we can record who is on the line. First, we’re going to let Rio Salado talk through their program and get them recognized.

Rio Certificate

Jim Nichols – I do not have the KSA mapping but I will explain where we are in the program so you get an idea of how we’re doing. I will email out the mapping soon. Rio Salado has been involved into a second round grant. Part of that second round TAACCCT grant, there is a part for IT security. It wasn’t until the second round that we have gotten a cybersecurity program finished. We attempted to work on what was necessary for the second round and what we needed for this first round; that is why we came in late. I’ll briefly describe what we have right now. We knew we needed to have a strong foundation for cybersecurity before we got to power. *Describes mapping of KSAs* We created a course to cover a combined objective but it was too big. We ended up breaking it up into two courses. We thought about how a student needs to be prepared to complete the objectives they needed and created courses as prerequisites. All of that is our certificate put together. We are also working on building out a full degree that will use that certificate as its foundation. I have to back up and plug in to get the mapping but that is where we are at.

Ann – The plan is to send the KSA mapping out to you and get you to review it. You will all respond by email to recognize their program. In order for them to be approved, you must state that their KSAs line up with what you all asked from us. Jim will need to be willing to modify if the businesses say there are any issues.

Current trends

John Sands – I will start with what we’ve been doing to keep up with trends. Moraine Valley has been teaching cybersecurity for the last 12 years. We have tried to modify things to address current trends and the three we focused on are mobile devices: we created a block of labs & content for mobile security. Our students are getting mobile devices to use in class and they can see what happens if data is not secured, and we’ll be doing a workshop for faculty. The second thing is we’ve looked at the new KSAs that came out from NSA and we saw that we didn’t have enough emphasis on scripting and programming. We have heard from many of you about the need for scripting so we put a class together and we’re still working on the labs for scripting. Even though they aren’t going to be programmers, it is prevalent that community college students need a better foundation in both of those areas. We’ll be teaching the class for the first time and we’re beta testing those labs before they get to the students. The third thing that we’ve focused on is that the students leaving our program need to know the outside resources for people working on cybersecurity. We’ve taken a look at our curriculum and we’ve

incorporated that information into our labs. We've reached out to companies to make sure we are incorporating the right information for our students. That is what we have done for our trends. Are there any other trends that we need to be on top of?

Ann Beheler – In case you all didn't know, we have submitted a proposal for a no cost extension to have another year. We are trying to tie up curriculum building this spring because it has to be put online through Rio Salado and that takes time. We are not looking for giant changes, although we do want to know what you want us to do.

Jim Nichols – I mentioned that we're part of a round two grant that is focused on the power industry. If we could be helpful in creating or contributing to the creation of labs, we can certainly leverage that as well. I have heard the possibility of creating SCATA?

John Sands – We have a prototype design that I can share with whoever is interested. The basic idea is that we're going to put together PLCs into a data acquisition server.

Matt Glover – Does the lab also provide some risk evaluation for CSPs or cloud server providers? The trends I'm seeing are all about the big pushes by big technology industries to get into the cloud. I don't think the adoption is where they would like it to be, but there are some significant moves to that direction so that does involve significant risks in security. Does that cover that?

John Sands – You basically captured what we have identified as the future of where we need to go. We have worked with different companies that have taken their commercial courses and they have provided us with those. We're in the process of planning a long term way of having that updated. Our long term goal is exactly what you just talked about. We understand that is the way things are going.

Lamar Owen – I would ask if that proposal has anything to do with point of sales terminals such as the target breach?

John Sands – I don't think we've specifically identified that but I will make note of it. Are there any other comments? I would like to know more about what you are seeing so we know what to incorporate into our courses. I know specifically with the PLCs that we can buy quite a bit and students will have them. I know people have been looking into game systems and some of those are running layers of Linux in them. It would be good to know what systems that have more value than others. One of the things that I'd like to do in the future is share our content with you.

Ann – Just for reference, KU is the same as KSA.

John Sands – Yes, correct. We were given early access to those to develop our new courses. They should be ready for distribution this spring.

Lynn – Are you going to be providing them to everyone?

John Sands – We will distribute them to anyone that is interested in them especially Community colleges. I think we've done a good job of taking the KSAs and building the programs.

Ann – The DOL is in the process of updating their model for cybersecurity. I have to believe that they are using the same KUs to do the same. I think they have the pyramid model and I think they are building to match that.

John Sands – Something we do is help colleges map their KSAs and achieve the other requirements to get their CE certification. This will help a much broader body of schools. Are there any other trends that we should be aware of? We've had more and more discussions about incorporating Citrix products. Are you seeing a lot of need for Citrix background?

Ann – I am not a business rep but I work with them MCIT in Omaha and they have heavy demand there. You might want to talk to the AIM Group. Citrix demand is pocketed throughout the nation but where it is present, it is big.

John Sands – We have had workshops and the healthcare industry requests it quite often. They are working with NDG also to put together a curriculum for their commercial products.

Rudy – I can't see that I've seen very much Citrix. I know that it is being used as a gateway but not too much of it.

Ann – I know in Dallas there is a demand for knowledge in Juniper Security. It is hot in the Dallas area.

John Sands – We have also gotten that request

Rudy – We have a large team of Juniper guys and we see some people moving towards Palo Alto and Juniper.

Ann – Our winter working connections came in and provided training and certification and it was a huge success. We are probably repeating that in the summer.

Update

Ann – If we don't get the no cost extension, we would be eight months to be done. I think DOL underestimated the time to get a multi-state consortium together because of the legality of it. We are at fighting strength and we appreciate the BILT team for being heavily involved. We have curriculum in place in all seven colleges and we have students filling up those classes. In terms of our numbers, we are beginning to turn people out in certificates and degrees. I will say that we are having success in employment. We have a job fair with 16 employers coming tomorrow and students already graduated and getting ready to graduate. Some results we have seen so far in this grant are 350 degrees and certificates across the consortium. Our goal is something around 3,000.

John Sands – Nationally this grant is going to have a large impact. We have aligned our KSAs perfectly according to the new KUs and mapping. Our new courses coming out this spring will be completed and mapped to the new KUs that have been identified as most important. I think this will help other schools across the nation prepare their curriculum to meet the new standards. Locally, we are one institution but we have 402 students last semester enrolled. We have had 200 students take and pass certification

exams. We have opened a new testing center for students. We are going to see an explosion of students leaving the programs with all of these credentials. We are seeing the high schools adopt these courses so they can begin early. We have ten high schools that have adopted our first three courses that make up for our first certificate.

Lynn – Would you mind sending me an email about the high schools and who is involved?

John – Yes, of course. I will send you an email. It works out to be a nice model. Again, we're distributing all of this to schools across the nation. That is the impact. We have put together official cohorts and we've had two cohorts with 29-30 students in each. We have made them build on soft skills. We've had 24 in the first cohort that completed this cohort included meeting once a week to work on soft skills and most participated in internships. The second cohort will be wrapping up this summer. They come in one Friday a month for an entire eight hours so I really think it will have an impact. Our overall numbers will have an explosion of completers. We've done these workshops and we've had 77 students attend the last workshop that focused on soft skills so they have been very successful.

Ann – We are doing virtual internship/externship for those that don't have the time for going to an actual internship. Those also address those soft skills and Matt attended the capstone presentation that grilled the students. Two of the three students have gotten really good jobs from that event. I would say that the DOL funding and this grant, it has provided the money to support the equipment and programs for these students. We could not have funded all of the presentations, workshops, etc. We are hopefully going to get the administration at our schools to adopt responsibly.

Lamar – We do a different educating, I find it very refreshing that this work has been done through this group. I am thrilled that this is being done so that the target breach will not happen in the future.

Ann – Across the DOL community, we have built relationships with the NSF. The NSF grants are long standing grant and it gives us the chance to build those relationships. We are certainly always willing to share and collaborate and it is definitely nice to be a part of that. It looks like we're at the end of our meeting.

John – I would like to thank all of our BILT members. We have many of our cybersecurity students in jobs and internships. I want to thank you for your support with all of that; without business support, we would not see this type of success.

Ann – We will have another meeting in three months.

Meeting adjourned at 9:30AM