**DAILY ASSESSMENT FORMAT**

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| **FORENOON SESSION DETAILS** |
| **Image of session** |
| **Become an Informed Consumer** The last few years have given us improvements in the speed and availability of Internet services, as well as advances in cloud computing and sensor technology. These technical gains, together with recent developments in automation and artificial intelligence, have created a highly digitized world. Digitization currently impacts every aspect of our daily lives. Digitization continues to provide new opportunities for professionals who are trained to develop and support the technology that is used to deliver the IoT.  The IoT provides an immeasurable amount of information that is readily available for consumption. This information can be quickly analyzed and used to automate many processes that were previously considered impossible to turn over to machines. For example, just a few years ago self-driving cars existed only in our imaginations and now they are a reality. Think about what else has changed in your life because of the IoT.  The IoT is also freeing humans from the drudgery of routine and repetitive tasks such as restocking shelves and order fulfillment. We may now have more time for higher intellectual pursuits and the chance to explore all the IoT has to offer.  We are at a point in time in which opportunities are limited only by our imagination. We now have the ability to embrace all of the benefits that the IoT has to offer and to help shape the future. How will you use the IoT to help improve the future? **Challenges in the Digitized World** The IoT provides many benefits but at the same time it presents many challenges. Since the IoT is a transformational technology, we are now faced with an ever expanding collection of new technology that we must master. The IoT is changing every aspect of our lives.  This is not the first time we have experienced a technological development that has such an impact. Mechanization on the farm allowed increased productivity of available farmland and started the migration of the population from rural to urban areas. The development of the automobile allowed for greater mobility of the workforce and increased recreational activities. The personal computer allowed the automation of many routine tasks with improved accuracy and efficiency. The Internet started to break down geographic barriers and improve equality between people on a global scale. These are only a few of the transformational technologies that we have experienced in recent history.  Every one of these technologies presented major changes to an established society and was met with initial fear and apprehension. After the initial fear of the unknown was overcome and the technology was embraced, the inherent benefits became obvious. Each perceived challenge opens up many new opportunities.  Can you imagine how your life would be without a car, personal computer, or access to the Internet?  This is an image of a hand holding up an illuminated city with wifi icons above the city. **The Evolving Job Market** The IoT is changing the job market. Traditional jobs are being replaced with jobs that are designed to embrace this new world and all it offers.  In IT, opportunities may be specific to fog computing, developing new processes, or a specialization in a discipline that has not yet been realized. These jobs reflect skills spanning multiple disciplines that include computer science, computer engineering (a blend of computer science and electrical engineering), and software engineering in the following areas:   * Artificial Intelligence * Application Development * IoT Program Developer * IoT Security Specialist * Collaboration * Enterprise Networks * Data Center and Virtualization   Not all jobs created by the IoT are IT-related. The IoT should be considered an enabling technology which has applications across all industries and aspects of our daily lives. For example, a city planner uses the data collected by IoT-enabled devices to plan out new city services. Sales people use IoT technology to enhance the sales experience with the customer, and stores use IoT technology to maintain proper inventory levels to match customer demand.  The IoT has created an abundance of jobs within its sphere. These jobs exist across various spectrums of the design, development and enabling of the IoT. There are broad categories that summarize the job opportunities that exist in the evolving digitized world:  • **Enablers** – These jobs develop and implement the underlying technology.  • **Engagers** –These jobs design, create, integrate, and deliver IoT services to customers.  • **Enhancers** – These jobs devise their own value-added services, on top of the services provided by Engagers, which are unique to the Internet of Things. |