

**General Information on APT Training Course**

1. **Title of Training Course:** Big Data in Telecom and Cloud Services
2. **Organization (hosted by):** TOT Academy of the TOT Public Company Limited
3. **Duration:** 25 - 29 August, 2014 (excluding arrival and departure dates)
4. **Place:** TOT Academy  
(174 Ngamwongwan Road, Nonthaburi 11000, Thailand)

**5. Abstract of the Course**

In today telecommunication service industry, there are dramatically changes and chances for both technology services and market ways. To enhance the economic model, the IT platform of IP convergence is the most common solution. The cloud computing is significantly impacting both IT paradigm and Telecom platform shifting.

Telecommunication services especially Internet service have flooded the world with huge amount of information and posing challenges to the telecommunication operators on keeping up expanding the network in order to provide the good quality of services. Other organizations are also facing with big data challenges. They have accessed to the rich information but don't know how to manage and gain benefits out of it.

To integrate both benefits of advanced telecommunication technologies and cloud computing services, this will make information and knowledge management of each organization much easier than before. The concepts of the big data are now going to the popular state of real practice based on the supporting of these technologies.

The main goal of big data analytics is to help organizations make better decisions by enabling data scientists and other users to analyze huge volumes of transaction data as well as other untapped data sources. These other data sources may include Internet click-stream data, social media activity reports, telephone call detail records and sensor data stream. Big data analytics can be done with the software tools commonly used as part of advanced analytics disciplines such as predictive analytics and data mining. The technologies associated with big data analytics include NoSQL databases, Hadoop and MapReduce. These technologies form the core of an open source software framework that supports the processing of large data sets across clustered systems.

This course is focused on cloud computing architecture and applied migration services to telecommunication industry. Such an applied technology, a big data is explained of how the telecommunication operators should manage to keep up expanding their network, the tools and related technologies to handle such circumstance in order to gain competitive advantage over rival organizations and resulted in getting more benefits. Since the security topic is one of the most critical topics that the cloud service must be concentrated and mandatory implemented, the core concept of security and security assessment are also included.

**6. Course Objective:**

- To understand the concepts of cloud computing and application services
- To be able to explain how to apply the big data analytics to their environment for advantage and better decision making
- To be able to describe the principle and how to manage/deal with security challenge and risk assessment based on big data and cloud services
- To fulfill experiences with learning case, hands-on exercise, company visit, and group discussion.

**7. Learning Method:**

- Lecture
- Learning case
- Hands-on exercise
- Company visit

**8. Course Schedule and Outlines:**

Please refer to the attached schedule and Outlines (**Attachment 1**) that is subject to change for elaboration and/or adjustment.

**9. Transportation and Airport Reception:**

TOT Academy is located on suburb of Bangkok, 60 km. from the Suvarnabhumi International Airport. The local host will provide the transportation between the Suvarnabhumi International Airport and the TOT Academy Hotel for the trainees based on the approved flight schedule information provided by APT. After passing through the immigration and customs at the Suvarnabhumi International Airport, TOT Academy staff will be waiting for the participants at the airport with the signage of "APT" at Gate 3 and escort the participants to the hotel.

**10. Hotel accommodation:**

All trainees will be accommodated at the TOT Academy Hotel located inside the TOT campus where is on 174 Ngamwongwan Road, Nonthaburi, Thailand.

**11. Visa and Immigration Requirement:**

All foreign visitors entering Thailand must have a valid passport. Participants who require a visa should apply for a visa at a Thailand consulate or diplomatic mission in their respective country well in advance of their departure. The Embassy/Consulate may take up to two weeks for visa processing. As visa requirements change from time to time, please check with the nearest Royal Thai Embassy or Consulate for participant's visa requirements before departure. Kindly visit the <http://www.mfa.go.th> for more details.

If participants require a visa supporting letter from APT, please ensure that you fill out all items in the Nomination Form and submit it together with a copy of photo page of your passport to the APT

Secretariat at email: [apthrd@apt.int](mailto:apthrd@apt.int) as this information will be used for the Visa Supporting documents.

**12. Weather:**

The latest weather information will be obtained at <http://www.tmd.go.th/en/thailand.php> (See weekly forecast to obtain highest and lowest temperature expected of each day of the corresponding week - Go to “Bangkok Metropolis and Vicinity Forecast”, click “more”).

**13. Electricity:**

The standard power supply in Thailand is 220V, 50 Hz. The type of power outlet/connector used in Thailand is A type which is a two-parallel-pronged type. Please bring the right adapter for your electrical appliances.



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**14. Regulation:**

- not to bring any member of his/her family;
- not to change accommodation during training period;
- to participate in the course from the beginning to the end; and
- to return his/her home country at the end of their training course according to the international travel schedule designated by APT.

Participants are required to comply with instructions given by APT and the local host. (Further information on the requirement is found in the “Guidelines for APT fellowships under HRD Programme (2013)” and other related document)

**15. Contact person for local host for training implementation:**

**Ms. Sudaporn Vimolseth**

**Vice President – TOT Academy**

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