**TRAINING OUTLINE**

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| **NBTC-ITU Training**  **on**  Building Distributed Ledger Technologies (Blockchain) Projects  (Train the Trainer Course)  **5-8 November 2019, Hotel Lancaster, Bangkok, Thailand** |

**COURSE DESCRIPTION**

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| Title | Building Distributed Ledger Technologies (Blockchain) Projects |
| Method of delivery | Face-to-face |
| Objectives | The training will provide an overview of Distributed Ledger Technologies (DLTs) technologies, trends and assessment techniques. It will also provide intermediate-to-advanced skills for developing DLT based projects. |
| Dates | 5-8 November 2019 |
| Duration | 4 days |
| Prerequisites | Participants should have basic computer programming skill in these languages: C, C++, Javascript,  Participants must bring their own laptop computers. |
| Registration deadline | 16 October 2019 |

**LEARNING OUTCOMES**

Upon completion of this training, participants will be able to

* Understand various DLTs and application trends
* Distinguish between various DLTs choices based on an assessment framework
* Gain hands-on exercise on how to develop DLT based application.
* Acquire perspective of what is required for developing DLT products.

**TARGET POPULATION**

Technological/Academic Staff from policy makers, regulators, telecom operators, researchers and academia responsible for or interested in teaching and developing DLT in Thailand.

**FACILITATOR/EXPERTS**

The training will be conducted by experts from ITU.

**DRAFT TRAINING SCHEDULE AND CONTENTS / AGENDA**

**(Updated information will be available at** [**http://www.itu.int/itu-d/asp**](http://www.itu.int/itu-d/asp)**)**

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| DRAFT AGENDA |
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| **5 November 2019 (Day-1)** |

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| 0830-0900 | **REGISTRATION** |
| 0900-0930 | **Opening Session:**  Group Photo |
| 0930 – 1045 | **Session 1: Global overview of DLT (including Blockchain) Ecosystem and Technologies**  Objective: To provide an overview of DLT Ecosystem and technologies.  **[Skylar Hurwitz]** |
| 1045-1100 | **COFEE BREAK** |
| 1100-1230 | **Session 2:  DLT based applications and an assessment framework**  Objective: To provide an overview of DLT application and an assessment framework.  [Skylar Hurwitz] |
| 1230-14:00 | **LUNCH BREAK** |
| 1400-1500 | **Session 3: Developing DLT projects**  Objective: To understand the framework for developing and managing DLT projects  [Jamie Cerexhe] |
| 1500-1530 | **COFEE BREAK** |
| 1530-1700 | **Session 4: Working group exercise**  Objective: tbc  [Jamie Cerexhe] |

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| 6 November 2019 (Day-2) |

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| 0900-1030 | **Session 5: Security Issues in DLTs**  Objective: To provide an overview of security issues in DLTs.  [Skylar Hurwitz] |
| 1030-1100 | **COFEE BREAK** |
| 1100-1230 | **Session 6: DLT Programming**  Objective:  [Jamie Cerexhe] |
| 1230-1400 | **LUNCH BREAK** |
| 1400-1500 | **Session 7: DLT Programming**  Objective:  [Jamie Cerexhe] |
| 1500-1530 | **COFEE BREAK** |
| 1530-1700 | **Session 8: Working Group / Lab Exercise**  [Jamie Cerexhe] |
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| 7 November 2019 (Day-3) |

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| 0900-1030 | | | | **Session 9: DLT policy and regulation**  Objective: To understand the policy and regulatory issues in DLT  [Ashish Narayan, ITU] | | | |
| 1030-1100 | | | | **COFEE BREAK** | | | |
| 1100-1230 | | | | **Session 10: Working Group / Lab Exercise**  Objective:  [Jamie Cerexhe] | | | |
| 1230-1400 | | | | **LUNCH BREAK** | | | |
| 1400-1530 | | | | **Session 11: Working Group / Lab Exercise**  Objective:  [Jamie Cerexhe] | | | |
| 1530-1600 | | | | **COFEE BREAK** | | | |
| 1600-1700 | | | | **Session 12: Working Group / Lab Exercise**  Objective:  [Jamie Cerexhe] | | | |
|  | |  | | --- | | 8 November 2019 (Day-4) |  |  |  | | --- | --- | | 0900-1030 | **Session 9: DLT case study**  Objective: To showcase a DLT based case study  [Ashish Narayan, ITU] | | 1030-1100 | **COFEE BREAK** | | 1100-1230 | **Session 10: Working Group / Lab Exercise**  Objective:  [Jamie Cerexhe] | | 1230-1400 | **LUNCH BREAK** | | 1400-1530 | **Session 11: Working Group / Lab Exercise**  Objective:  [Jamie Cerexhe] | | 1530-1600 | **COFEE BREAK** | | 1600-1700 | **Session 12: Working Group / Lab Exercise**  Objective:  [Jamie Cerexhe] | | | | | |
|  | | **WORKWORKSHOP CLOSING** | | |
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**METHODOLOGY**

The face-to-face programs will include

* + Instructor-led presentations,
  + Case studies,
  + Group exercises

**TRAINING COORDINATION**

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