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| **ITU Centres of Excellence Network for Asia and the Pacific**  **State Radio Monitoring Center - China**  **Training on**  **SPECTRUM ENGINEERING AND CROSS-BORDER RADIO FREQUENCY COORDINATION**  **Xi’an, Shanxi Province, China (Peoples Republic of)**  **11 – 15 September 2017**  **TRAINING OUTLINE** |

**COURSE DESCRIPTION**

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| **Title** | ITU Asia-Pacific CoE Training Program on Spectrum Engineering and Cross-Border Coordination |
| **Method of delivery** | Face-to-Face |
| **Objectives** | * Understand the process and approaches to national spectrum management, monitoring and evaluation of spectrum economic values. * Learn the practical implementation of   + Radio station licensing,   + Bilateral coordination of terrestrial service and earth station,   + Spectrum engineering technologies,   + Emerging RF technologies and applications. |
| **Dates** | 11 -15 September 2017 |
| **Registration deadline** | 30th July 2017 |
| **Additional details**  (*for updates kindly visit the event webpage*) | * **Tuition Fees:** **Free of cost**. No tuition charge for this training course however participant are expected to cover their travel, accommodation and other personal expenses during the period of the course. The price of hotel in Xi’an start at $50 to $150 per night. * **Location** : Xi’an - People’s Republic of China * **Number of trainees from outside China**: not more than 30 * **Language of instruction**: English |

**LEARNING OUTCOMES**

This course covers the core functions of spectrum engineering and cross-border coordination and is mainly targeted towards the staff of National Spectrum Management agencies. Starting with the practice of spectrum management case study of China, the course consists of detailed sessions on topics such as emerging radiocommunication technologies, practice of spectrum engineering, radio station licensing and bilateral coordination of terrestrial services and earth stations.

The training course also provides an empowering learning environment through a combination of lectures and visits focused on sharing information with the participants of modern technical tools to facilitate national radio regulation in an efficient and effective way.

**TARGET POPULATION**

This training is designed to address mid to senior level management from policy makers, regulators, corporate executives and managers responsible for Spectrum Management.

**TUTORS/INSTRUCTORS**

The detailed profile of the instructors can be accessed from the event webpage at: [www.itu.int/go/SECB-2017](http://www.itu.int/go/SECB-2017)

**EVALUATION**

The overall assessment is made up of four components. Two are based on the participants’ performance through administered tests and examinations, and the other two are based on the trainer’s evaluation of the participant.

1. **Participation** – The trainer allocates marks based on the participants’ level of involvement in group work and spontaneous quizzes during the course of the training. This component provides 35% towards the learner’s overall score.
2. **Attendance** - The trainer awards marks based on the rate at which the participant shows up in class based on the requirements of the course. This component provides 15% towards the overall score.
3. **Exam** - The exam is the final assessment of knowledge gained during the training. For this reason, it contributes the highest percentage of 50% to the overall score.

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| **Scores** | | | **Weighted Scores** | | | |
| **Participation**  **(Group work and Quiz)** | **Attendance** | **Exam** | **Participation + Quiz**  **(35%)** | **Attendance**  **(15%)** | **Final Exam**  **(50%)** | **Total Score** |

**The overall pass mark to be attained by participant for certification is set at 60%.**

**TRAINING SCHEDULE AND AGENDA**

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| Day 1 Opening and introduction to basics of Spectrum Management  11 September 2017, Monday | | | | |
| 09:00-09:30 | Opening Remarks | |  | |
| 09:30-10:00 | GROUP PHOTO and COFFEE BREAK | | | |
| 10:00-11:00 | International Radio Regulations: *ITU Structure and study groups and preparation on WRC-19 Agenda items* | |  | |
| 11:00-12:15 | National Radio Regulations: *A case study of China* | |  | |
| 12:15-14:00 | LUNCH | | | |
| 14:00-15:15 | Radio Station Licensing | |  | |
| 15:15-15:45 | COFFEE BREAK | | | |
| 15:45-17:00 | Emerging Radio communication technologies and applications (IMT, IoT…) |  | | |
| 18:00-20:30 | Welcome Dinner | | | |
| Day 2 Spectrum Engineering and Radio Station Coordination  12 September 2017,, Tuesday | | | | |
| 09:00-09:45 | Cross Broder RF Interference Management | |  | |
| 09:45-10:15 | COFFEE BREAK | | | |
| 10:15-11:20 | Bilateral coordination of terrestrial service and earth stations | |  | |
| 11:20-12:00 | **Quiz** | |  | |
| 12:00-14:00 | LUNCH | | | |
| 14:00-15:15 | Practice of Spectrum Engineering | |  | |
| 15:15-15:45 | COFFEE BREAK | | | |
| 15:45-17:00 | Emergency satellite communication system and its application | |  | |
| Day 3 Advanced spectrum Management Issues  13 September 2017, Wednesday | | | | |
| 09:00-10:15 | Evaluation of spectrum economic values |  | | |
| 10:15-10:45 | COFFEE BREAK | | | |
| 10:45-12:00 | New trends in spectrum management technology: *Big data and spectrum sharing* |  | | |
| 12:00-14:00 | LUNCH | | | |
| 14:00-17:00 | Visit: *Shanxi Radio Monitoring Station* | | | |
| Day 4 Interaction with Spectrum users  14 September 2017, Thursday | | | | |
| 09:00-12:00 | Visit: *National Time Service Center-Chinese Academy of Science* | | |  |
| 12:00-14:00 | LUNCH | | | |
| 14:00-17:00 | Cultural Visit | | | |
| Day 5 Group Discussions and Exams  14 September 2017, Friday | | | | |
| 09:00-11:30 | Group based learning | |  | |
| 11:30-13:00 | Examination | |  | |
| 13:00-14:00 | LUNCH | | | |
| 15:00-16:00 | Closing Session | |  | |

**METHODOLOGY**

The training will include Instructor-led presentations, case studies, group exercises, study visits (as per the program above), and evaluations.

All training materials would be provided to the participants at least in soft form.

**TRAINING COORDINATION**

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