 International Centre for Information Systems & Audit

Course Schedule for Workshop on
**Data Visualization**

 **(For IA&AS Officers)**

(**11th to 13th November, 2024)**

|  |  |  |
| --- | --- | --- |
|  | **Day 1- 11th November, 2024 (Monday)** |  |
| **Session 1****(Day-1)** | I**ntroduction to Data Visualization & Power BI Basics**: Overview of data visualization concepts, introduction to Power BI interface, and creating simple reports. | 10:00 – 11:15 |
|  | **Mr. Piyush Tiwari, AAO and Mr. Vaibhav Rawat, AAO,** **iCISA Noida** |  |
|  | Tea Break | **11:15 – 11:45** |
| **Session 2 (Day-1)** | **Data Importing & Preprocessing in Power B**I: Importing data from various sources (CSV, Excel, databases) and cleaning data using Power Query | 11:45 – 13:00 |
|  | **Mr. Piyush Tiwari, AAO and Mr. Vaibhav Rawat, AAO,** **iCISA Noida** |  |
|  | **Lunch Break** | **13:00– 14:00** |
| **Session 3 (Day 1)** | **Data Manipulation & Data Modeling in Power BI:** Creating relationships between tables, data transformations, and DAX functions for data calculations. | 14:00 – 15:15 |
|  | **Mr. Piyush Tiwari, AAO and Mr. Vaibhav Rawat, AAO,** **iCISA Noida** |  |
|  | **Tea Break** | **15:15 – 15:45** |
| **Session 4 (Day 1)** | **Visualizations in Power BI:** Creating basic and advanced visualizations (bar charts, line charts, pie charts) and customizing visuals in Power BI. | 15:45 – 17:00 |
|  | **Mr. Piyush Tiwari, AAO and Mr. Vaibhav Rawat, AAO,** **iCISA Noida** |  |
|  | **Day 2- 12th November, 2024 (Tuesday)** |  |
| **Session 1****(Day-2)** | **Introduction to Tableau & Interface Overview:** Introduction to Tableau's interface, connecting to data sources, and basic navigation of Tableau workspace.  | 10:00 – 11:15 |
|  | Mr. Gowthaman R, Director, O/o The DG/PD of Audit (Industry & Corporate Affairs), New Delhi |  |
|  | **Tea Break** | **11:15 – 11:45** |
| **Session 2 (Day-2)** | **Connecting to Data Sources in Tableau**: Connecting Tableau to multiple data sources (CSV, databases, etc.) and understanding data preparation in Tableau.  | 11:45 – 13:00 |
|  | Mr. Gowthaman R, Director, O/o The DG/PD of Audit (Industry & Corporate Affairs), New Delhi |  |
|  | **Lunch Break** | **13:00– 14:00** |
| **Session 3 (Day 2)** | **Creating Basic Charts & Graphs in Tableau:** Building visualizations such as bar charts, line graphs, and scatter plots. Understanding the use of measures and dimensions.  | 14:00 – 15:15 |
|  | Mr. Gowthaman R, Director, O/o The DG/PD of Audit (Industry & Corporate Affairs), New Delhi |  |
|  | **Tea Break** | **15:15 – 15:45** |
| **Session 4 (Day 2)** | **Dashboards and Storytelling with Tableau**: Creating interactive dashboards, combining multiple visualizations, and learning effective storytelling with data.  | 15:45 – 17:00 |
|  | Mr. Gowthaman R, Director, O/o The DG/PD of Audit (Industry & Corporate Affairs), New Delhi |  |
|  |  **Day 3 - 13th November 2024 (Wednesday)** |  |
| **Session 1****(Day-3)** | **Advanced Visualizations & Customizing Tableau:** Creating advanced visualizations (e.g., maps, waterfall charts) and customizing Tableau's visual elements. | 10:00 – 11:15 |
|  | Mr. Gautam Gahlaut, SAO, O/o The DGA/PDA, Central Expenditure (E&SD), New Delhi |  |
|  | Tea Break | **11:15 – 11:45** |
| **Session 2 (Day-3)** | **Case Studies highlighting use of Tableau for data visualization and assessment exercise** | 11:45 – 13:00 |
|  | **Mr. Gautam Gahlaut, SAO, O/o The DGA/PDA, Central Expenditure (E&SD), New Delhi** |  |
|  | **Lunch Break** | **13:00– 14:00** |
| **Session 3 (Day 3)** | **Advanced Data Visualization Techniques in Power BI:** Advanced visualizations (e.g., waterfall charts, maps, etc.), custom visual elements, and interactivity features. | 14:00 – 15:15 |
|  | **Mr. Piyush Tiwari, AAO and Mr. Vaibhav Rawat, AAO,** **iCISA Noida** |  |
|  | **Tea Break** | **15:15 – 15:45** |
| **Session 4 (Day 3)** | **Case Studies highlighting use of Power BI for data visualization and assessment exercise** | 15:45 – 17:00 |
|  | **Mr. Piyush Tiwari, AAO and Mr. Vaibhav Rawat, AAO,** **iCISA Noida** |  |
|  |  |  |