

Study Group Agenda 15 de julio de 2023 Sede CIAPR Salón Ing. Harry Villegas 8:00am – 5:00pm

FS – Fundamental of Surveying

8:00am – 12:00pm

Programing HP33s

1:00pm - 5:00pm

5. Survey Computations and Computer Applications

- A. Coordinate geometry
- B. Traverse closure and adjustments
- C. Leveling (e.g., differential, trigonometric, reciprocal, precise)
- D. Least squares adjustments
- E. Area
- F. Horizontal curves
- G. Vertical curves
- H. Volume (e.g., mass diagrams, earthwork)
- I. Spreadsheets
- J. Slopes and grades

PS – Principles and Practice of Surveying

8:00am – 12:00pm

Programing HP33s

1:00pm - 5:00pm

- 4. Business Practices
 - A. General Business Practices and Procedures
 - 1. Project planning and project management
 - 2. Deliverables
 - 3. Costs, budgets, and contracts
 - 4. Types of surveys
 - 5. Site features and conditions
 - 6. Scope of services
 - 7. Appropriate equipment and instruments
 - B. Risk Management Procedures
 - 1. Safety procedures
 - 2. QA/QC methods
 - 3. Risk management in contracts
 - 4. Insurance needs and requirements
 - 5. Potential liabilities
 - C. Professional Conduct
 - D. Communication with Clients, Staff, Related Professions, and the Public
 - 1. Different forms of communications
 - 2. Appropriate type of communication to convey concepts
 - 3. Related professions and their impact on client needs and deliverables