# Draft Agenda

| Time (Eastern) | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 |
|---|---|---|---|---|---|
| 10:00 AM | Welcome & Introduction | Sample Mean, Central Limit Theorem, P-Values, and Hypothesis Testing | Simulation | Introduction to Decision Analysis | Introduction to Bayesian Networks |
| | Summarizing Data, Part I | | | Decision Making Challenges | |
| 11:00 AM | | | Monte Carlo Methods | Foundations | |
| | Exercise | | | Selecting a Decision Process | Break |
| 12:00 PM | Lunch | Lunch | Lunch | Framing the Decision | Bayesian Networks in Practice |
| | | | | Lunch | |
| 1:00 PM | Summarizing Data, Part II | Linear Regression and Connection to P-Values | Introduction to Optimization | | Lunch |
| | | | | Crafting Objectives and Value Measures | |
| 2:00 PM | Exercise | | Integer Optimization | | Leaning Bayesian Networks from Data |
| | Summarizing Data, Part III and Introduction to Python | Break | Exercise | Designing Alternatives | |
| 3:00 PM | | Logistic Regression | Break | Break | Break |
| | | | Nonlinear Optimization | Deterministic MODA | Causal Analysis |
| 4:00 PM | Exercise | Break | | | |
| | Analytic Problem Framing | Time Series | Exercise | | |
| 5:00 PM | | | Sensitivity Analysis | Break | Practicum |
| | | | | Portfolio Analysis | |
| 6:00 PM | Conclusion | Conclusion | | | Wrap-Up & Conclusion |

**Register:** https://www.mors.org/events/certificates/ctap