GAMS for Economic Modeling & Policy Analysis Training

Master applied modeling and scenario analysis using GAMS to inform decisions and policy.

Course Overview

GAMS for Economic Modeling & Policy Analysis Training
Learn to use **GAMS (General Algebraic Modeling System)** to develop, solve, and analyze economic, energy, and policy models. This course takes you from understanding mathematical model formulation to implementing and interpreting models in GAMS. You will learn linear, nonlinear, and mixed-integer programming, along with simulation and policy scenario analysis.

The training emphasizes hands-on application, enabling you to confidently apply GAMS in research, consultancy, development projects, and corporate decision-making.

What You Will Learn
✓ Translate economic and policy problems into mathematical models
✓ Implement linear, nonlinear, and mixed-integer models in GAMS
✓ Solve models efficiently and troubleshoot errors
✓ Conduct scenario and sensitivity analysis
✓ Automate repetitive tasks with GAMS scripts and loops
✓ Generate professional tables, charts, and model outputs
✓ Interpret results for reports, presentations, and policy recommendations

Skills You Will Gain

• Independent model formulation and implementation using GAMS
• Economic, energy, and policy modeling expertise
• Scenario and sensitivity analysis for robust decision-making
• Professional reporting and visualization of model results
• Ability to provide actionable insights for policy and investment decisions

Who Should Attend

This training is suitable for:
• Economists, energy analysts, and policy researchers
• Researchers and postgraduate students in economics and related fields
• Development practitioners and consultants
• Corporate analysts and decision-makers
• Anyone interested in applied modeling and scenario analysis

Training Format

• Mode: Physical / Online (Live Instructor-Led)
• Duration: 2-4+ months (Flexible schedule)
• Certification: Certificate of Completion provided
• Materials Provided: GAMS scripts, templates, datasets, and resources

Why Train With Us

• Instructors with real-world experience in economic and energy modeling
• Practical, hands-on exercises using real datasets and policy scenarios
• Small class sizes for personalized support
• Post-training mentorship and guidance
• Corporate training packages available