

Course Syllabus: Groundwater Modeling for the Site Professional – Fundamentals and Applications

Course Outline		Section
No.	Section	Duration
1	Introduction - Course Overview	10
2	Uses of Groundwater Modeling - How it can benefit a project <ul style="list-style-type: none"> - Brief overview of the many applications of groundwater modeling in groundwater and environmental projects - Application of models for Site Investigation & Remediation 	40
3	The Modeling Process - What to know and watch out for <ul style="list-style-type: none"> - Including a model and directing the groundwater modeling portion of a project - Regulatory guidance for environmental project models - Model conceptualization, software selection, model development, and application - Model QA & Report 	45
4	Case Study	20
5	BREAK	15
7	Soil Zone Modeling & SESOIL <ul style="list-style-type: none"> - Overview of Vadose Zone Modeling Software - Example Applications of Vadose Zone Software 	35
8	Overview of Groundwater Modeling Software <ul style="list-style-type: none"> - Discussion of modeling software, including MODFLOW, AEM Models, and other modeling tools 	25
9	Step-Wise Model Building Exercise <ul style="list-style-type: none"> - Introduction to Exercise - Stepwise Model Development & Discussion 	45
10	Final Wrap-up & Discussion	5

Total
 Minutes: 240