
Engineering ExplanationsTM

Soft-Skills Training for Hard-Skilled Engineers and ScientistsTM

What is Engineering ExplanationsTM?

Engineering ExplanationsTM is a 2-day, instructor led, presentation skills development workshop that is specifically designed for engineers, scientists, and other STEM professionals.

This course introduces ChannelScience's Problem-SolutionTM approach to presentations. The students learn best-practices for preparing and giving technical presentations to a variety of audiences. Students see and critique video examples of technical presentations. The students come to class prepared with a practice 4-7 minute presentation that they will refine and present as part of the class.

To compete globally at the highest level, your high-potential individuals need to continue to develop their best skills. Your key technical professionals will learn how to clearly communicate complex technical issues to customers, executives, and peers with Engineering ExplanationsTM!

What makes Engineering ExplanationsTM different?

It is designed *and presented* by experienced engineers to align with the way engineers and scientists learn, think, and interact. The hard-won knowledge, perspectives, and tools taught in this class are based on many thousands of hours of coaching, critiquing, preparing, and giving highly technical presentations around the world.

Why is the Engineering ExplanationsTM workshop needed?

Many presentation skills training seminars try to make technical professionals into entertainers or storytellers. While these are valuable skills, clearly communicating complex technical issues is a more immediate and attainable goal for most engineers and scientists. A funny "opener" isn't a requirement. Instead, this class teaches practical, proven techniques for solving the audience's technical problems through concise, understandable, actionable presentations.

Who should attend an Engineering ExplanationsTM workshop?

This workshop is designed for engineers, scientists, researchers, technologists, and developers in technology-intensive careers. It is appropriate and beneficial for even the most senior professionals.

What are the benefits for students who complete Engineering ExplanationsTM?

- Practice ChannelScience's Problem-SolutionTM approach to technical presentations
- Learn and practice techniques for more clearly explaining deeply technical issues
- Recognize best-practices for effective technical presentations
- Utilize tools and techniques for more confident public speaking
- Understand the differences between presenting to peers, management, and customers

What are the benefits for the organization that sponsors this workshop?

- Clearer and quicker dissemination of technical information throughout the organization
- Techniques learned are *used* because they are connected to the organization's needs
- Increased reputation of your organization for innovative talent development opportunities
- Increased influence in the organization's industry through clearer communication of ideas
- Improved succession planning through identification and development of technical leaders

Engineering ExplanationsTM

Presentation Skills Development for Technical Experts

Course Outline

- **Pre-Class Preparation: Practice Presentation**
 - Students are encouraged to prepare a relevant 4-7 minute presentation to present and refine during the class
- **Day 1, Morning Session: How Good Technical Presentations Solve Problems**
 - Group discussion of examples of good and bad technical presentations
 - Introduction to ChannelScience's Problem-SolutionTM approach to presentations
 - Understanding the needs of different audiences
 - Techniques for identifying the "problems" to be solved by the presentation
 - Using the ChannelScience Presentation Evaluation Form
- **Day 1, Afternoon Session: In-Class Presentations and Explanation of Best Practices**
 - Students make their baseline presentation in front of the class and camera
 - Best-practices for preparing technical presentations
 - Best-practices for giving technical presentations
 - Practical techniques for overcoming common problems, including nervousness
 - The effects of time constraints on the speaker, the audience, and the message
- **Day 1, Homework: Students watch and critique their recorded presentation**
- **Day 2, Morning Session: Practicing Best-Practices**
 - Review the students' observations of their homework
 - Group critique of examples of good and bad communication/explanation/presentation
 - Techniques for getting more out of being in the audience of a technical presentation
 - Tailoring a lengthy technical presentation into a short customer or executive briefing
 - Small group practice of problem-solution approach to presentations
- **Day 2, Afternoon Session: Live Presentations and Individual Review**
 - Students present their practiced presentation to the class
 - Discussion of the changes students notice after *Engineering Explanations*TM training
 - One-on-one private review of each student's presentation with the instructor
 - (Optional) Students receive individualized help preparing an additional presentation

What are the next steps to take?

Contact ChannelScience at connect@channelscience.com or 972-814-3441 to get answers to your specific questions, request a quote, or discuss scheduling a class at your facility.

Visit www.eXperienceACCELERATED.com for more information, to download slides of related presentations, and read a journal article on ChannelScience's professional development findings presented at the IEEE International Technology Management Conference (ITMC).

ChannelScience also provides leadership development training for those on the technical ladder in our *e*perience ACCELERATEDTM 2-day class, and out-placement training in our Hirable for LifeTM seminars.