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Lessons about Usable Information Products

Thinking about document usability lately? If you find yourself re-creating documentation from your suppliers to meet user needs, it may be a symptom of market conditions. Without hearing the "voice of the customer," your suppliers might be ignorant about the usability of the documents they provide.

Technical Communication (TechCom) Specialists are experts in examining documents for usability. Through document analysis, TechCom Specialists provide solutions to help you — the Subject Matter Expert. They study audience analysis, information design, technical writing and editing, usability analysis, SME interviewing, and technical communication ethics.

Consult with TechCom Specialists, either in your local community or in your remote communities on the web. You will learn why documents need to be revised for usability, and they can offer you advice about the information products they design for subject matter experts, and point-of-service users like your customers.

E-Learning and Informative Posters

Subject Matter Experts (SMEs) can benefit from information products like e-learning to help train, and remind, what point-of-service users should know and remember. By using e-learning, users will have easy refresher courses at their conveyance. E-learning products can simply be created by using advanced digital design tools and interactive media.



Figure 1. E-Learning prototype for instructing users on Locomotive Lead Positioning.



Figure 2. E-Learning prototype for instructing users on Technical Communication.



At times, users need reminders about safety like the dangers of electrical systems, or reminders about regulations like the procedures that address environmental idle emission standards. Technical Communication Specialists can recommend materials and genres to provide point-of-service information directly to users in their environment.

Technical Communication Specialists design information products by using cutting edge digital design tools, applying knowledge about materials and context, and selecting the most appropriate cost-effective print production method.

For SMEs without resources and knowledge in digital design, Technical Communication Specialists can act as project managers and collaborate with design professionals.

Figure 3. Informative poster created for a subject-matter-expert to address and describe three safety terms about Rubber Glove Work safety.



Document Analysis for Usability

Point-of-service OEM equipment users need documentation to perform tasks. According to academic studies in cognitive task analysis, readers must recognize characters, words, paragraphs and comprehend information by finding meaning in the paragraph and the document. It becomes difficult when equipment users want to perform a procedure to perform a simple task, but stressed when information is hard to find — a problem in document usability. Users become discouraged from reading and using a difficult document. It becomes worse when users must perform difficult tasks under extreme stress — a documented fact in the nuclear and locomotive industries. Technical Communication Specialists have the knowledge and skill to examine a document for usability. These professionals can issue technical reports to explain why documents are hard to use, and recommend ways to help point-of-service users.

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Figure 4.

page in a 200 page operators manual. The sample is an unclear procedure with tasks, feedback, software, hardware, indication.

Screen shot from a single

SME interviews show that users need effective materials. The SME recreates another document to help train, support subordinates. but relies on knowledge about writing and desktop software. User context is remote and in extreme conditions



Figure 5. Screen shot from a 33" x 25" context oriented information product. The sample is a proposed solution from a TechCom Specialist.

The design relies on the mental model of the users experience with the system e.g. locomotive, controls. indicators. It places system information in one location for the user

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Source: Cornell, STC newsletter author, 10.23.2010

Usability Problem Solving in AD-HOC Environments

Reader environments dictate the usability of documents in industry, and manufacturers find it hard to deliver usable documents that meet the needs of all readers and their environments. Excessive product support is one symptom where documents fail to meet usability requirements, and deliver AD-HOC (unplanned) documentation. Technical Communication Specialists can provide professional advice to Subject Matter Experts through informative interviews and document examination. From this advice, Technical Communications Specialists propose solutions to solve problems in document usability.

	Send Command	 Figure 6.
	Device outputs can also be controlled directly from the Status screen. This means that any controlled device can remotely be turned off or on. Use the Send Command link to carry out this operation.	Screen s
*	Note: The Send Command screen is only available if the Telemetric model supports outputs.	
	Charges Senterson Send Commanded Denice: 2005: Decomption: 1664-05 Text Denice Senters the adaptive resemination from code of the option of the obdext charges, and the obdext charges to reserve that the feature to be feature that the senterson Code of the code of the observe that the senterson of the observe that the senterson Code of the code of the code of the observe that the senterson of the observe the senterson of the observe the observe the senterson of the observe the senterson of the observe the senterson of the observe the observe the senterson of the observe the senterson of the observe the senterson of the senterson of the observe the senterson of the observe the senterson of the observe the senterson of the senterson of the observe the senterson of the observe the senterson of the senterson of the observe the senterson of the observe the senterson of the observe the observe the senterson of the observe the senterson of the observe the ob	guide procedur procedur and basi to help u send cor complex
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nt-line product support orted excessive s from customers o needed assistance navigate a complex ADA website user erface. Call profiles w that AD-HOC user cumentation failed to meet system complexity.

	Device List Send Command T646		
Send commands to control the T646 Outputs and Settings			
The Send Command page is used to manually send commands for turning ON outputs, start Time Scheduled reports, next the device, enable/disable features, and to chose limits and setpoints that are part of the T646 profile (see T646 Local Configuration Program).			
Navination Menu	Navigate to the Send Command page		
Device List	 At the left navigation menu, select Device List. 		
Event Based Actions Customer Information Messages & Recipients	 From the Device List page, select the device id to navigate to its Status page. 		
Missing Device Report Device Groups Data Export Setup	 At the top of the Status page, select Send Command. 		
Advanced Programming Device Profiles	TIDBIT Select Change Settings to Reset the unit, Start and Stop Time Schedule reports, and disable or enable features		
Charge Settings Send Command			
Set Output 1 to Close Set Output 1 to Close	Now Today Mon Today Mon A fite pull-down menu, select the command. Mon A fite pull-down menu, select the command. Mon To seric the command. Mon To seric the command. Mon To provide the process. Mon To complete the process.		
20	Page 1 of 2 Nevigation Guide		

Source: Cornell, Product Support, 10.23.2010

Screen shot from a new user guide created by product support team who studies at the graduate level in Technical Communication. Product Support responds to the customer in the field to help them understand and use complex technology.

Figure 7.

The user guide relies on visual design techniques to create tasked based procedures, which allows a complete comprehensive guide to include all features and options within a complex website A TechCom solution to AD-HOC documentation.



Source: Technical Writer (SME), Telemetric, 10.23.2010

een shot from a ault AD-HOC software er guide. The user de presents a simple cedure using text basic paragraphs elp users find and d commands within a nplex SCADA website.