

PACKAGE ID - 001351IBMPC00 ATRCA

KWIC TITLE - Advanced Techniques for Root Cause Analysis

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LIMITATION CODE -COPY **AUDIENCE CODE** - LIM

COMPLETION DATE - 12/01/1999 **PUBLICATION DATE** - 12/01/1999

DESCRIPTION - Five items make up this package, or can be used individually. The Chronological Safety Management Template utilizes a linear adaptation of the Integrated Safety Management System laid out in the form of a template that greatly enhances the ability of the analyst to perform the first step of any investigation which is to gather all pertinent facts and identify causal factors. The Problem Analysis Tree is a simple three (3) level problem analysis tree which is easier for organizations outside of WSRC to use. Another part is the Systemic Root Cause Tree. One of the most basic and unique features of Expanded Root Cause Analysis is the Systemic Root Cause portion of the Expanded Root Cause Pyramid. The Systemic Root Causes are even more basic than the Programmatic Root Causes and represent Root Causes that cut across multiple (if not all) programs in an organization. the Systemic Root Cause portion contains 51 causes embedded at the bottom level of a three level Systemic Root Cause Tree that is divided into logical, organizationally based categories to assist the analyst. The Computer Aided Root Cause Analysis that allows the analyst at each level of the Pyramid to a) obtain a brief description of the cause that is being considered, b) record a decision that the item is applicable, c) proceed to the next level of the Pyramid to see only those items at the next level of the tree that are relevant to the particular cause that has been chosen, and d) at the end of the process automatically print out a summary report of the incident, the causal factors as they relate to the safety management system, the probable causes, apparent causes, Programmatic Root Causes and Systemic Root Causes for each causal factor and the associated corrective action.

PACKAGE CONTENTS - Media Directory; Software Abstract; Media Includes User's Guide;

SOURCE CODE INCLUDED? - No

MEDIA QUANTITY - 1 CD Rom

METHOD OF SOLUTION - Templates, Root Cause trees, computer software, a training course, and a student manual.

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COMPUTER - IBM PC

OPERATING SYSTEMS - Windows 95/98/200

PROGRAMMING LANGUAGES - na

SOFTWARE LIMITATIONS - Must have Filemaker Pro Version 4 loaded on their system. (Stand alone program could also be provided upon request).

SOURCE CODE AVAILABLE (Y/N) - N

UNIQUE FEATURES - Chronological Safety Management Template. No such template exists. Standard techniques are all start from scratch methods requiring high levels of training and experience. This template is intuitive, effective and guidance is embedded in the tool. This new tree is simpler and more streamlined than existing trees, but contains all of the important information contained in previous versions.

HARDWARE REQS - IBM or compatible PC P100 MH2 or higher Windows 95/98 Filemaker Pro V4.

ABSTRACT STATUS - Released AS-IS 9/20/2000

SUBJECT CLASS CODE - Z

SPONSOR - DOE/ER

PACKAGE TYPE - AS - IS