

## 3-DAY TAPROOT®/EQUIFACTOR® EQUIPMENT TROUBLESHOOTING & ROOT CAUSE FAILURE ANALYSIS

\$1,895 USD (Includes Software) 2.4 CEUs 4 CM Points

### What is TapRoot®?

TapRoot® is a system of Root Cause Analysis, created by nuclear navy and human factors expert Mark Paradies and engineer Linda Unger. The System integrates the TapRoot® Book, Root Cause Tree®, Dictionary, Corrective Action Helper, software, and most importantly training, into a 7-Step Investigation Process. This innovative, proven system is backed by years of research, success, and expert feedback. You'll save time and money by find root causes of incidents and ultimately preventing them from happening.

### How will TapRoot® Benefit Your Company?

- Your employees will not only learn how to find and fix money-wasting problems that limit your efficiency. We'll teach them to proactively audit your systems for efficiency and stop costly issues before they start.
- The course provides huge ROI for you: One company saved \$1,000,000 at one site alone, while another has saved around \$40,000,000 and counting.
- We offer courses in major cities around the world, which lowers travel time and cost to you. We also offer discounted hotel rooms for these courses.
- TapRoot® students learn using real-life incidents from our instructors' years of experience in the field, not simulated textbook examples. Your employees will come back equipped for real investigations.

### What will Your Employees Learn with TapRoot®?

This course focuses on equipment failure analysis and troubleshooting by combining the use of TapRoot® with Heinz Bloch's troubleshooting techniques from his book, Machinery Failure Analysis and Troubleshooting.

### 3-Day Course Outline:

- Intro & Opening Exercise
- TapRoot® Investigation Process
- SnapCharT® - "What Happened?"
- Exercise: Draw a SnapCharT®
- Using the Root Cause Tree®
- Find Root & Generic Causes
- Developing Effective Fixes
- SMARTER & Corrective Action Helper® Exercise
- Using TapRoot® Proactively in Audits
- Safeguard Analysis & Exercise
- Safeguard Analysis Exercise
- Presenting to Management
- TapRoot® Implementation Tips
- Investigation Team Exercise
- Troubleshooting Fundamentals
- Equipment Failure SnapCharT®
- Heinz Bloch Troubleshooting Checklists
- FRETT/Failure Modes
- Change Analysis
- From Troubleshooting to Root Cause Analysis
- Equipment Root Cause Analysis Exercise

### Who Should Attend?

Anyone wanting to find and fix the root causes of incidents, accidents, quality problems, near-misses, operational errors, hospital sentinel events, and other types of problems should attend. Equipment failure analysis and reliability professionals, engineers, equipment reliability specialists, maintenance supervisors, mechanics, maintenance supervisors, and others who analyze equipment problems to find and fix their root causes.

### Companies Already Using TapRoot®:

- |              |               |                       |                   |                 |
|--------------|---------------|-----------------------|-------------------|-----------------|
| • Intel      | • Phillips    | • Otis Elevator       | • Pfizer          | • Fluor         |
| • GE         | • Chevron     | • Duke Energy         | • OSHA            | • And Many More |
| • ExxonMobil | • Pirelli     | • Exelon              | • GA Pacific      |                 |
| • BP         | • BellSouth   | • Children's Hospital | • Rio Tinto       |                 |
| • NASA       | • Bayer       | • North Broward       | • Barrick Gold    |                 |
| • Novartis   | • Halliburton | • Hospital            | • Alaska Airlines |                 |

Join hundreds of companies already using TapRoot® around the world to find root causes in their companies and saving time, money, and lives.