

COURSE OVERVIEW TM0207 Certified RCA Leader

Advanced Root Cause Analysis (RCA) Methods & Leadership

Course Title

Certified RCA Leader: Advanced Root Cause Analysis (RCA) Methods & Leadership

Course Duration/Credits

Five days/3.0 CEUs/30 PDHs

Course Reference

TM0207



Course Description



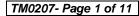




This course is designed to provide participants with an advanced overview of root cause analysis (RCA) methods and leadership. It covers the successful and unsuccessful results, human behavior, accountability, investigator attitude (mindset), investigation steps, job task analysis and the seven-step methodology; the investigation of the factors in evidence preservation, preserve and control evidence collect physical evidence, documentary evidence and human evidence and witness recollection statement; the lines of inquiry, organizational individual mindset. personal and accountability, management control elements and pareto analysis; and establishing contributing factors and validating underlying factors.



During this interactive course, participants will learn to plan corrective actions; carryout report writing by preparing report template, sample incident analysis report template, grade cards/scoresheets and root cause analysis; apply the principles and techniques of effective team management and leadership and investigation of organization and management team; implement action plan follow up; and employ other methodologies on root cause analysis.















Course Objectives

Upon the successful completion of this course, each participant will be able to:-

- Get certified as a "Certified RCA Leader"
- Discuss root cause analysis (RCA) covering successful and unsuccessful results, human behavior, accountability, investigator attitude (mindset), investigation steps, job task analysis and the seven-step methodology
- Identify the scope of problem comprising of problem statement, problem description, difference mapping and extent of condition review
- Investigate the factors in evidence preservation, preserve and control evidence, collect physical evidence, documentary evidence and human evidence and witness recollection statement
- Employ lines of inquiry, individual mindset, personal and organizational accountability, management control elements and pareto analysis
- Illustrate fault tree analysis, task analysis, critical activity charting and actions and factors charting
- Establish contributing factors and validate underlying factors
- actions Plan corrective through action planning, change management, S.M.A.R.T.E.R., safety precedence sequence, barriers and aids analysis, solution selection tree and matrix, contingency plan, effectiveness review and performance indicator development
- Carryout report writing by preparing report template, sample incident analysis report template, grade cards/scoresheets and root cause analysis
- Apply the principles and techniques of effective team management and leadership as well as investigation of organization and management team
- Implement action plan follow up through verification of action plan, documentation, line management accountability, key performance indicators, goal setting and action plan effectiveness verification
- Employ other methodologies on root cause analysis consisting of HSYS, checklists, assessment of safety significant teams (ASSET), safety through organizational learning (SOL) and PROACT™

Exclusive Smart Training Kit - H-STK®



Participants of this course will receive the exclusive "Haward Smart Training Kit" (H-STK®). The H-STK® consists of a comprehensive set of technical content which includes electronic version of the course materials, sample video clips of the instructor's actual lectures & practical sessions during the course conveniently saved in a Tablet PC.

Who Should Attend

This course provides an advanced overview of root cause analysis (RCA) methods and leadership for those who are responsible for others in the workplace such as managers, engineers, supervisors, team leaders, HSE engineers, senior HSE officers, foremen and junior production operation staff.





















Course Certificate(s)

(1) Internationally recognized Competency Certificates and Plastic Wallet Cards will be issued to participants who have successfully completed the course and passed the exam at the end of the course. Successful candidate will be certified as a "Certified RCA Leader". Certificates are valid for 5 years.

Recertification is FOC for a Lifetime.

Sample of Certificates

The following are samples of the certificates that will be awarded to course participants:-



























(2) Official Transcript of Records will be provided to the successful delegates with the equivalent number of ANSI/IACET accredited Continuing Education Units (CEUs) earned during the course.





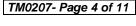






















Certificate Accreditations

Certificates are accredited by the following international accreditation organizations: -



The International Accreditors for Continuing Education and Training (IACET

Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the ANSI/IACET 2018-1 Standard which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the ANSI/IACET 2018-1 Standard.

Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking Continuing Education Units (CEUs) in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

Haward Technology Middle East will award 3.0 CEUs (Continuing Education Units) or 30 PDHs (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant's involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant's CEU and PDH Transcript of Records upon request.



British Accreditation Council (BAC)

Haward Technology is accredited by the British Accreditation Council for Independent Further and Higher Education as an International Centre. BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre. Haward Technology meets all of the international higher education criteria and standards set by BAC.

Accommodation

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.

Course Fee

Dubai	US\$ 5,500 per Delegate + VAT . This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.
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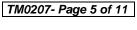


















Course Instructor(s)

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:



Mr. Steve Magalios, CEng, PGDip (on-going), MSc, BSc, Senior Management Consultant with over 40 years of extensive experience in the areas of Project Scheduling & Cost Control, Project Planning, Scheduling & Cost Control Professional, Effective Quality Management System (QMS), QMS Framework, Quality Assurance Standards, QA Audit Process & Techniques, Root Cause Analysis (RCA), Coaching Skills, Coaching Plan, Mentoring Techniques, Communication & Listening Office Administration, Office Techniques, Management, Management, Administration Process, Administration Work Procedures,

Facilitation & Leadership Skills, Human Resource Development, Psychometric Testing, Career Development & Competence, Succession Planning, Self-Development & Empowerment, Personal Learning Needs Identification, Critical Success Factors (CSFs), Key Performance Indicators (KPIs), Productivity Creativity & Thinking Modes, Human Resource Scorecard Management, Career Laddering, Fast-Track Career Progression Application, Knowledge Management, Customer Management, Leadership Skills, Presentation Skills, Negotiation Skills, Communication Skills, Emotional Intelligence, Performance Management, Contract Management, Quality Management, Commercial Strategy, Project Management, Risk Management, Leadership & Business Management, Human Resource Management, Planning, Budgeting & Cost Control, Business Development, Innovation, Organization Management & Business Consulting, Stakeholder & Supplier Evaluation, Data Collection & Information Gathering, Value & Supply Chain Management, Intellectual Property & Innovation Assessments, Logistics & Supply Chain Management, Budgeting & Cost Control and Marketing Management. Currently, he is the Chartered Professional Surveyor Engineer & Urban-Regional Planner wherein he is deeply involved in providing exact data, measurements and determining properly boundaries. He is also responsible in preparing and maintaining sketches, maps, reports and legal description of surveys.

During his career, Mr. Magalios has gained his expertise and thorough practical experience through challenging positions such as a Project Site Construction Manager, Construction Site Manager, Project Manager, Deputy PMS Manager, Head of the Public Project Inspection Field Team, Technical Consultant, Senior Consultant, Consultant/Lecturer, Construction Team Leader, Lead Pipeline Engineer, Project Construction Lead Supervising Engineer, Lead Site Engineer, Senior Site Engineer Lead Engineer, Senior Site Engineer, R.O.W. Coordinator, Site Representative, Supervision Head and Contractor for international Companies such as the Penspen International Limited, Eptista Servicios de Ingeneria S.I., J/V ILF Pantec TH. Papaioannou & Co. – Emenergy Engineering, J/V Karaylannis S.A. - Intracom Constructions S.A., Ergaz Ltd., Alkyonis 7, Palaeo Faliro, Piraeus, Elpet Valkaniki S.A., Asprofos S.A., J/V Depa S.A. just to name a few.

Mr. Magalios is a Registered Chartered Engineer and has Master and Bachelor degrees in Surveying Engineering from the University of New Brunswick, Canada and the National Technical University of Athens, Greece, respectively. Further, he is currently enrolled for Post-graduate in Quality Assurance from the Hellenic Open University, Greece. He has further obtained a Level 4B Certificates in Project Management from the National & Kapodistrian University of Athens, Greece and Environmental Auditing from the Environmental Auditors Registration Association (EARA). Moreover, he is a Certified Instructor/Trainer, a Chartered Engineer of Technical Chamber of Greece and a Certified Internal Verifier/Assessor/Trainer by the Institute of Leadership & Management (ILM). He has delivered numerous trainings, workshops, seminars, courses and conferences internationally.





















Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, State-of-the-Art Simulators, Drawings, Case Studies, Videos and Exercises. The courses include the following training methodologies as a percentage of the total tuition hours:-

30% Lectures

20% Practical Workshops & Work Presentations

30% Hands-on Practical Exercises & Case Studies

20% Simulators (Hardware & Software) & Videos

In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

Course Program

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the course for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Day 1

Day I	
0730 - 0800	Registration & Coffee
0800 - 0815	Welcome & Introduction
0815 - 0830	PRE-TEST
0830 - 0930	Introduction to Root Cause Analysis (RCA) Defining Cause Analysis • Successful and Unsuccessful Results • Human Behavior • Accountability • Investigator Attitude (Mindset) • Investigation
0930 - 0945	Steps • Job Task Analysis • The Seven-Step Methodology Break
0930 - 0943	
0945 – 1100	Step 1: Scope the Problem Problem Statement • Problem Statement Examples • Problem Description • Problem Description Examples • Difference Mapping • Difference Mapping Examples • Extent of Condition Review • Extent of Condition Review Examples
1100 – 1230	Step 2: Investigate the Factors Evidence Preservation • Preserve and Control Evidence • Collect Physical Evidence • Collect Documentary Evidence • Collect Human Evidence • Witness Recollection Statement • Interviewing
1230 - 1245	Break
1245 – 1420	Step 2: Investigate the Factors (cont'd) Lines of Inquiry: Question Generators • Question Generator: Individual Mindset • Question Generator: Personal and Organizational Accountability • Question Generator: Management Control Elements • Pareto Analysis • Pareto Chart Template • Pareto Analysis Examples
1420 – 1430	Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow
1430	Lunch & End of Day One



















Day 2

Day Z	
0730 - 0930	Step 3: Reconstruct the Story Fault Tree Analysis • Fault Tree Example • Task Analysis • Task Analysis Example • Critical Activity Charting (Critical Incident Technique) • Critical Activity Chart Example • Actions and Factors Charting • Actions and Factors Chart Example • Notes
0930 - 0945	Break
0945 – 1100	Step 4: Establish Contributing Factors Contributing Factor Test • Five WHYs • Five WHYs Example • Exxon- Valdez Oil Spill Example • Tokai-Mura Criticality Incident Example • Reactor Trip Example • Cause and Effect Trees • Cause and Effect Tree Examples
1100 – 1230	Step 4: Establish Contributing Factors (cont'd) Difference Analysis (a.k.a Change Analysis) • Broken Back Example • Falling Objects Example • Breaker Trip Example • Defense Analysis (a.k.a Barrier Analysis) • Breaker Fire Example • Structure Tree Diagrams • Fishbone (Ishikawa) Diagram
1230 - 1245	Break
1245 – 1420	Step 4: Establish Contributing Factors (cont'd) Forearm Fracture Example • Poor Safety Culture Example • Defense -in- Depth Analysis • MORT Analysis • Mort Maintenance Example • Production/Protection Strategy Analysis • Safety Culture Analysis
1420 – 1430	Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow
1430	Lunch & End of Day Two

Dav 3

Day 5	
0730 - 0930	Step 5: Validate Underlying Factors
	Support/Refute Methodology • Truck will not Start Example • Crane
	<i>Incident Example</i> • WHY Factor Staircase • Lost Time Away Injury Example
0930 - 0945	Break
	Step 5: Validate Underlying Factors (cont'd)
0945 - 1100	Course Evaluation Matrix • Dump Truck Example • Extent of Cause
	Review • Example 1: Flood Protection Strategy Inadequate • Example 2: Leak
	Due to Stress Corrosion Cracking • Example 3: Rental Car Flat Tire •
	Example 4: Waste Not Labeled as Required
	Step 6: Plan Corrective Actions
1100 – 1215	Action Plan ● Change Management ● S.M.A.R.T.E.R. ● Safety Precedence
	Sequence (Hierarchy of Corrective Action Effectiveness) • Barriers and Aids
	Analysis (Pros and Cons) • Solution Section Tree • Solution Selection Matrix
1215 - 1230	Break

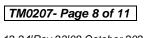






















1230 – 1420	Step 6: Plan Corrective Actions (cont'd) Contingency Plan • Lessons to Be Learned Communication Plan • Institutionalization/Active Coaching Plan • Effectiveness Review • Performance Indicator Development
1420 – 1430	Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow
1430	Lunch & End of Day Three

Day 4

Day 4	
0730 - 0930	Step 7: Report Writing Preparing to Create Your Report • Report Template • Sample Incident Analysis Report Template • Grade Cards/Scoresheets • Root Cause Analysis - Sample Organizational Learning Scoresheet
0930 - 0945	Break
0945 - 1100	Team Management Principles & Techniques of Effective Team Management & Leadership
1100 - 1230	Team Management (cont'd) Organization & Management of the Investigation Team, From Start to End
1230 - 1245	Break
1245 – 1420	Action Plan Follow Up Verification of Action Plan Implementation • Documentation • Line Management Accountability
1420 – 1430	Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow
1430	Lunch & End of Day Four

Day 5

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0730 - 0930	Action Plan Follow Up (cont'd)
	Key Performance Indicators • Goal-Setting • Verification of Action Plan
	Effectiveness
0930 - 0945	Break
0945 – 1100	Root Cause Analysis - Other Methodologies
	Introduction ● American Institute of Chemical Engineers Review ● HSYS ●
	Checklists • Assessment of Safety Significant Teams (ASSET) • Safety
	Through Organisational Learning (SOL) ● PROACT™
	Practical Exercise on Root Cause Analysis
1100 – 1215	Formation of Investigation Teams • Setting the Scene - Video and Team
	Discussion • Question Session - Gathering of Information • Team
	Investigation – Analysis of Information • Team Discussion – Identification of
	Risk Control Measures
1215 - 1230	Break















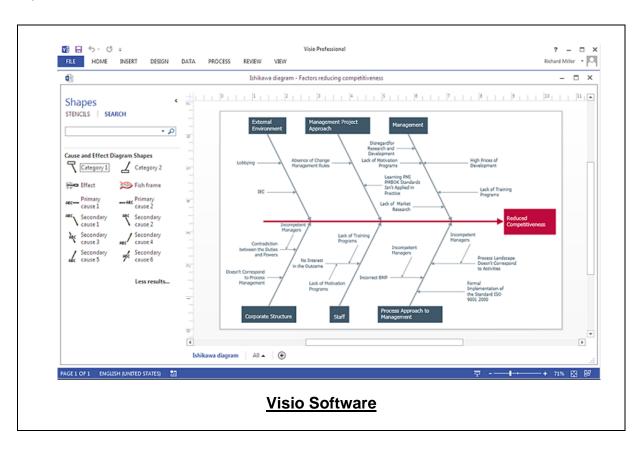




1230 – 1300	Practical Exercise on Root Cause Analysis (cont'd) Producing a Basic Report, A Team Summary Report ● Recommendations for Change – Creation of Action Plan ● Corrective Actions ● Preventive Actions ● Implementation Stage
1300 – 1315	Course Conclusion Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course
1400 – 1415	COMPETENCY EXAM
1415 – 1430	Presentation of Course Certificates
1430	Lunch & End of Course

Simulator (Hands-on Practical Sessions)

Practical sessions will be organized during the course for delegates to practice the theory learnt. Delegates will be provided with an opportunity to carryout various exercises using our state-of-the-art simulators "Visio Software", "Mindview Software" and "QRA".

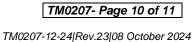










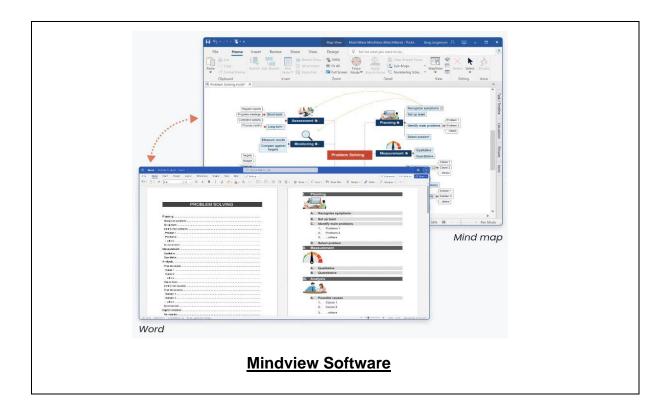


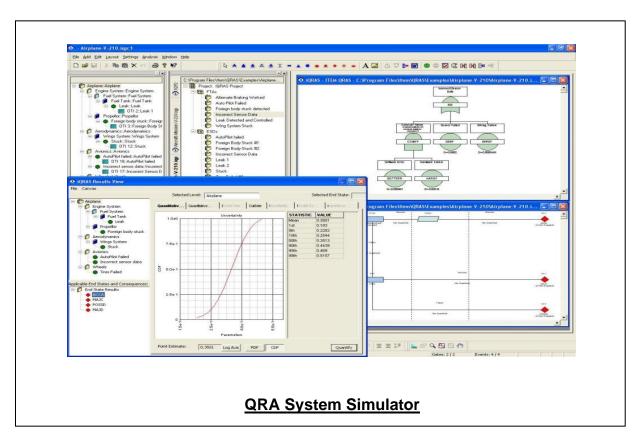












Course Coordinator

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