

# Root Cause Failure Analysis Course Workbook Content

## Contents

<b>Extracts on the Causes of Equipment Failure .....</b>	<b>2</b>
<b>Human Error Tables and the Story they Tell .....</b>	<b>3</b>
<b>Root Cause Analysis Answers Your Problems .....</b>	<b>4</b>
<b>Overview of the RCFA Investigation Process .....</b>	<b>5</b>
<b>Activity 3 – ‘IS – IS NOT’ Table Analysis.....</b>	<b>6</b>
<b>5/7 Whys Method of Root Cause Analysis.....</b>	<b>7</b>
<b>Eight Points to Successful Root Cause Analysis (RCA) .....</b>	<b>9</b>
<b>Case Study 1 – Review an RCFA and RCFA Process.....</b>	<b>10</b>
<b>Activity 4 - FMEA Exercise .....</b>	<b>20</b>
<b>Reliability Growth Cause Analysis – what has to go right .....</b>	<b>23</b>
<b>Risk Rating.....</b>	<b>32</b>
<b>Equipment Criticality.....</b>	<b>34</b>
<b>Risk Identification and Analysis - Template 1 .....</b>	<b>35</b>
<b>Risk Treatment Schedule and Action Plan - Template 2 .....</b>	<b>36</b>
<b>Risk Assessment Matrix .....</b>	<b>38</b>
<b>Using Affinity Diagrams.....</b>	<b>39</b>
<b>Using Interrelationship Digraphs.....</b>	<b>39</b>
<b>Activity 5 – Guided RCFA with Open Discussion .....</b>	<b>41</b>
<b>Activity 6 – Practice an RCA – Fuel Station .....</b>	<b>51</b>
<b>Creative Disassembly Explained .....</b>	<b>52</b>
<b>Activity 7 – Creative Disassembly .....</b>	<b>54</b>
<b>Activity 8 – Create ACE 3T Inspection &amp; Test Plan for Maintenance Tasks.....</b>	<b>56</b>
<b>Activity 9 - Do RCA – Cable Reel Removal .....</b>	<b>59</b>
<b>Activity 10 - Group RCFA Exercise.....</b>	<b>60</b>
<b>How to Make RCFA a Successful Business Improvement Strategy .....</b>	<b>65</b>