

Attachment 6: CAT BRANCH A3 MATRIX

Human Performance A3 Level C Nodes	Potential Associated Level C Nodes from Different CAT Branches***	
	Level C nodes applicable to the particular A3 Level C Node	Additional Level C Nodes applicable to the associated A3 Level B Node
A3B1C01 Check of work was LTA	A1B5C02, Physical environment LTA, A5B1C03, Checklist LTA	A1B1C03, Design input not correct, A1B5C01, Ergonomics LTA, A4B1C03, Management direction created insufficient awareness of impact of actions on safety / reliability, A4B2C04, Resources not provided to assure adequate training was provided / maintained, A4B3C02, Insufficient time allotted for task, A4B3C05, Insufficient number of trained or experienced workers assigned to task, A4B3C07, Job scoping did not identify potential task interruptions and/or environmental stress, A4B4C03, Appropriate level of in-task supervision not determined prior to task, A4B4C06, Job performance and self-checking standards not properly communicated, A4B4C10, Assignment did not consider worker's previous task, A5B1C01, Format deficiencies, A6B1C03, Work incorrectly considered skill of the craft
A3B1C02 Step was omitted due to distraction	A4B4C08, Frequent job or task "shuffling"	
A3B1C03 Incorrect performance due to mental lapse	A4B4C07, Too many concurrent tasks assigned to worker, A4B4C08, Frequent job or task "shuffling"	
A3B1C04 Infrequently performed steps were performed incorrectly		
A3B1C05 Delay in time caused LTA actions	A4B4C07, Too many concurrent tasks assigned to worker, A4B4C08, Frequent job or task "shuffling"	
A3B1C06 Wrong action selected based on similarity with other actions	A5B1C07, Unclear / complex wording or grammar, A5B2C05, Ambiguous instructions / requirements	
A3B1C07 Omission/repeating of steps due to assumptions for completion	A5B1C03, Checklist LTA	
A3B2C01 Strong rule incorrectly chosen over other rules		A1B2C06, Drawing, specification, or data error, A1B5C01, Ergonomics LTA, A4B1C03, Management direction created insufficient awareness of impact of actions on safety / reliability, A4B1C09, Corrective action for previously identified problem or event was not adequate to prevent recurrence, A4B2C06, Means not provided to assure procedures / documents / records were of adequate quality and up-to-date, A5B1C01, Format deficiencies, A5B2C05, Ambiguous instructions / requirements, A6B1C03, Work incorrectly considered "skill of the craft", A6B2C01, Practice or hands-on experience LTA
A3B2C02 Signs to stop were ignored and step performed incorrectly	A4B4C06, Job performance and self-checking standards not properly communicated	
A3B2C03 Too much activity was occurring and error made in problem solving	A1B5C02, Physical environment LTA, A4B3C04, Too few workers assigned to task, A4B3C07, Job scoping did not identify potential task interruptions and/or environmental stress, A4B4C07, Too many concurrent tasks assigned to worker, A4B4C08, Frequent job or task "shuffling"	
A3B2C04 Previous success in use of rule reinforced continued use of rule	A4B3C10, Problem performing repetitive tasks and/or subtasks	
A3B2C05 Situation incorrectly identified or represented resulting in wrong rule used	A5B1C07, Unclear / complex wording or grammar	

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Human Performance Level C Nodes	Potential Associated Level C Nodes from Different CAT Branches***	
	Level C nodes applicable to the particular A3 Level C Node	Additional Level C Nodes applicable to the associated A3 Level B Node
A3B3C01 Attention was given to wrong issues		A1B5C01, Ergonomics LTA, A4B1C09, Corrective action for previously identified problem or event was not adequate to prevent recurrence, A4B2C04, Resources not provided to assure adequate training was provided / maintained, A4B3C08, Job scoping did not identify special circumstances and / or conditions, A4B4C06, Job performance and self-checking standards not properly communicated, A5B4C03, Correct terminology not used, A5B4C04, Verification / repeat back not used, A5B4C05, Information sent but not understood, A6B1C02, Training requirements not identified, A6B2C01, Practice or hands-on experience LTA, A6B3C02, Inadequate content
A3B3C02 LTA conclusion based on sequencing of facts	A5B1C06, Instruction step / information in wrong sequence	
A3B3C03 Individual justified action by focusing on biased evidence		
A3B3C04 LTA review based on assumption that process will not change	A4B3C10, Problem performing repetitive tasks and/or subtasks, A4B5C12, Change not identifiable during task, A5B1C05, Recent changes not made apparent to user	
A3B3C05 Incorrect assumption that a correlation existed between two or more facts		
A3B3C06 Individual underestimated the problem by using past events as basis	A4B3C10, Problem performing repetitive tasks and/or subtasks	
A3B4C01 Individual's capability to perform work LTA	A1B5C01, Ergonomics LTA, A1B5C02, Physical environment LTA, A4B3C07, Job scoping did not identify potential task interruptions and/or environmental stress, A4B4C09, Assignment did not consider worker's need to use higher-order skills, A4B4C10, Assignment did not consider worker's previous task, A4B4C11, Assignment did not consider worker's ingrained work patterns	A4B1C04, Management follow-up or monitoring of activities did not identify problems, A4B1C09, Corrective action for previously identified problem or event was not adequate to prevent recurrence, A4B2C09, Personnel selection did not assure match of worker motivations / job descriptions, A4B4C04, Direct supervisory involvement in task interfered with overview role
A3B4C02 Deliberate violation	A4B2C02, Insufficient supervisory resources to provide necessary supervision, A4B4C03, Appropriate level of in-task supervision not determined prior to task, A4B4C05, Emphasis on schedule exceeded emphasis on methods / doing a good job, A4B4C12, Contact with personnel too infrequent to detect work habit / attitude change	

*** The left column contains each A3 Level C node. The center column contains nodes from the other branches that can be coupled with the associated A3 Level C nodes. The right column contains Level C nodes that can be coupled with the any of the A3 Level C nodes that are associated with the B level node. This list shows recommendations only and is not all-inclusive.