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<txt id="intro1"> Instructions</txt>

<txt id="intro2">You have to answer 10 multiple choice questions.</txt>

<txt id="intro3">You need to score a minimum of 70% to pass the test.</txt>

<txt id="intro4">Click Enter to begin the test.</txt>

<txt id="intro5">All the Best!</txt>

<txt id="intro6">Assessment - Result</txt>

<txt id="intro7">Your score</txt>

<txt id="intro8"> </txt>

<txt id="intro9">Lean Assessment</txt>

<txt id="intro10">Click the Correct Option.</txt>

<txt id="intro11">Click Get your certificate.</txt>

<txt id="intro12">Sorry! You have failed</txt>

<txt id="intro13">Congratulations!</txt>

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<QNo>1</QNo>

<QUESTION>Defect prevention is</QUESTION>

<OPTION1>Mistake proofing</OPTION1>

<OPTION2>Iterative testing</OPTION2>

<OPTION3>OA</OPTION3>

<OPTION4>Early testing</OPTION4>

<ANSWER>Mistake proofing</ANSWER>

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<QNo>2</QNo>

<QUESTION> \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the critical starting point of Lean thinking</QUESTION>

<OPTION1>Project Value</OPTION1>

<OPTION2>Customer Value</OPTION2>

<OPTION3>Value Addition</OPTION3>

<OPTION4>Program value </OPTION4>

<ANSWER>Customer Value</ANSWER>

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<QNo>3</QNo>

<QUESTION>To get First Hand Information, we need to do</QUESTION>

<OPTION1>Visual Control</OPTION1>

<OPTION2>Go See Yourself</OPTION2>

<OPTION3>Brainstorm</OPTION3>

<OPTION4>Continuous Monitoring</OPTION4>

<ANSWER>Go See Yourself</ANSWER>

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<QNo>4</QNo>

<QUESTION>Value is always defined from the perspective of the</QUESTION>

<OPTION1>Customer</OPTION1>

<OPTION2>Project</OPTION2>

<OPTION3>Product</OPTION3>

<OPTION4>All of the above</OPTION4>

<ANSWER>Customer</ANSWER>

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<QNo>5</QNo>

<QUESTION>\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a Visual Control device in the work area indicating a process or quality problem</QUESTION>

<OPTION1>Andon Board</OPTION1>

<OPTION2>SMED</OPTION2>

<OPTION3>Both 1 and 2</OPTION3>

<OPTION4>None</OPTION4>

<ANSWER>Andon Board</ANSWER>

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<QNo>6</QNo>

<QUESTION>\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the rate (time per unit of value) at which work should proceed through a Value Stream</QUESTION>

<OPTION1>Cycle Time</OPTION1>

<OPTION2>Activity Time</OPTION2>

<OPTION3>Takt Time</OPTION3>

<OPTION4>All the above</OPTION4>

<ANSWER>Takt Time</ANSWER>

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<QNo>7</QNo>

<QUESTION>This technique can be used to conduct root cause analysis</QUESTION>

<OPTION1>5 Why</OPTION1>

<OPTION2>Fishbone diagram</OPTION2>

<OPTION3>Cause and Effect diagram</OPTION3>

<OPTION4>All the above</OPTION4>

<ANSWER>All the above</ANSWER>

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<QNo>8</QNo>

<QUESTION>Pull system helps in avoiding \_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Over production</OPTION1>

<OPTION2>Slow production</OPTION2>

<OPTION3>Fast production</OPTION3>

<OPTION4>None of above</OPTION4>

<ANSWER>Over production</ANSWER>

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<QNo>9</QNo>

<QUESTION>Placing everything in its place is part of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_in 5S framework</QUESTION>

<OPTION1>Sort</OPTION1>

<OPTION2>Straighten</OPTION2>

<OPTION3>Shine</OPTION3>

<OPTION4>Sustain</OPTION4>

<ANSWER>Straighten</ANSWER>

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<QNo>10</QNo>

<QUESTION>Creation of a level schedule by sequencing orders in order to smoothen the demand is known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Heijunka</OPTION1>

<OPTION2>Gemba</OPTION2>

<OPTION3>Kaizen</OPTION3>

<OPTION4>Hoshin Kanri</OPTION4>

<ANSWER>Heijunka</ANSWER>

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<QNo>11</QNo>

<QUESTION>Kaizen as implemented in Lean helps in the following</QUESTION>

<OPTION1>Ongoing improvement</OPTION1>

<OPTION2>significant onetime improvement</OPTION2>

<OPTION3>Ongoing small changes suggested by external process consultant</OPTION3>

<OPTION4>One time significant change suggested by external process consultant</OPTION4>

<ANSWER>Ongoing improvement</ANSWER>

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<QNo>12</QNo>

<QUESTION>Continuous organization learning and improvement is ensured through \_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Standardization and Automation</OPTION1>

<OPTION2>Retrospection and Mistakeproofing</OPTION2>

<OPTION3>Pull and Flow</OPTION3>

<OPTION4>Retrospection and Kaizen</OPTION4>

<ANSWER>Retrospection and Kaizen</ANSWER>

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<QNo>13</QNo>

<QUESTION>Main purpose of Visual control is to</QUESTION>

<OPTION1>Create dashboards and metrics for measurement</OPTION1>

<OPTION2>Ensure problems are not hidden</OPTION2>

<OPTION3>Help in baselining and measuring the trends</OPTION3>

<OPTION4>Showcase to the management on the success stories of the team</OPTION4>

<ANSWER>Ensure problems are not hidden</ANSWER>

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<QNo>14</QNo>

<QUESTION>VSM helps in</QUESTION>

<OPTION1>Identifying areas where automation can be implemented</OPTION1>

<OPTION2>Identifying areas for putting mistake proofing process</OPTION2>

<OPTION3>Identifying value adding and non value adding activity in a process</OPTION3>

<OPTION4>Identifying areas where Visual control can be implemented</OPTION4>

<ANSWER>Identifying value adding and non value adding activity in a process</ANSWER>

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<QNo>15</QNo>

<QUESTION>PDCA stands for</QUESTION>

<OPTION1>Plan-Do-Check-Act</OPTION1>

<OPTION2>Plan-Do-Control-Analyze</OPTION2>

<OPTION3>Plan-Do-Check-Analyze</OPTION3>

<OPTION4>Plan-Do-Control-Act</OPTION4>

<ANSWER>Plan-Do-Check-Act</ANSWER>

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<QNo>16</QNo>

<QUESTION>Which of the following is not a root cause analysis technique</QUESTION>

<OPTION1>Pareto diagram</OPTION1>

<OPTION2>5 Why</OPTION2>

<OPTION3>Fish Bone Diagram</OPTION3>

<OPTION4>Mistake Proofing</OPTION4>

<ANSWER>Mistake Proofing</ANSWER>

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<QNo>17</QNo>

<QUESTION>The culture of Lean gives a lot of importance to</QUESTION>

<OPTION1>Innovation</OPTION1>

<OPTION2>Capability building</OPTION2>

<OPTION3>Questioning status-quo</OPTION3>

<OPTION4>Showcasing best practices</OPTION4>

<ANSWER>Questioning status-quo</ANSWER>

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<QNo>18</QNo>

<QUESTION>Identifying the necessary and removing unwanted one in any workplace is called</QUESTION>

<OPTION1>Straighten</OPTION1>

<OPTION2>Automation</OPTION2>

<OPTION3>Mistake proofing</OPTION3>

<OPTION4>Sort</OPTION4>

<ANSWER>Sort</ANSWER>

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<QNo>19</QNo>

<QUESTION>What is the typical first step towards identifying the area of waste elimination in a project</QUESTION>

<OPTION1>Root Cause Analysis</OPTION1>

<OPTION2>5S</OPTION2>

<OPTION3>Mistake proofing </OPTION3>

<OPTION4>Value Stream Mapping</OPTION4>

<ANSWER>Value Stream Mapping</ANSWER>

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<QNo>20</QNo>

<QUESTION>Kaizen applied with the right approach helps in achieving</QUESTION>

<OPTION1>Quantum improvement</OPTION1>

<OPTION2>Incremental improvement</OPTION2>

<OPTION3>Sustains the performance</OPTION3>

<OPTION4>Marginal improvement</OPTION4>

<ANSWER>Incremental improvement</ANSWER>

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<QNo>21</QNo>

<QUESTION>&apos;Value&apos; in Lean terms is a deliverable to the client which is usable. Identify which statements below qualify for this Value definition</QUESTION>

<OPTION1>Value for a recruitment group is each human resource made available to the project teams</OPTION1>

<OPTION2>Value for a Maintenance project is the Bugs serviced per release</OPTION2>

<OPTION3>Value for a Conversion project is every web page converted</OPTION3>

<OPTION4>All of the above</OPTION4>

<ANSWER>All of the above</ANSWER>

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<QNo>22</QNo>

<QUESTION>Identify Type 2 &quot;Waste&quot; in these scenarios</QUESTION>

<OPTION1>Waiting and searching for resources in the lab during reproduction and testing</OPTION1>

<OPTION2>Capturing relevant information in defect tracker </OPTION2>

<OPTION3>Updating knowledge base </OPTION3>

<OPTION4>Frequent build cycles, frequent code reviews and early testing</OPTION4>

<ANSWER>Waiting and searching for resources in the lab during reproduction and testing</ANSWER>

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<QNo>23</QNo>

<QUESTION>Workload leveling is</QUESTION>

<OPTION1>Assiging important tasks to key resources only</OPTION1>

<OPTION2>Allocating the tasks as and when they queue up </OPTION2>

<OPTION3>Allocating the right tasks to team members based on effort,complexity estimates, skill level</OPTION3>

<OPTION4>Dividing and assigning the same tasks to multiple people </OPTION4>

<ANSWER>Allocating the right tasks to team members based on effort,complexity estimates, skill level</ANSWER>

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<QNo>24</QNo>

<QUESTION>What is Lean?</QUESTION>

<OPTION1>Creating value from the perspective of a customer</OPTION1>

<OPTION2>Improving processes and operation </OPTION2>

<OPTION3>A culture of continuous improvement </OPTION3>

<OPTION4>All of the above </OPTION4>

<ANSWER>All of the above</ANSWER>

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<QNo>25</QNo>

<QUESTION>When should I start implementing Lean principles in a project?</QUESTION>

<OPTION1>When the organization mandates</OPTION1>

<OPTION2>When there is a problem in the project</OPTION2>

<OPTION3>When the project gets kicked off</OPTION3>

<OPTION4>None of the above</OPTION4>

<ANSWER>When the project gets kicked off</ANSWER>

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<QNo>26</QNo>

<QUESTION>During which phase of the project can Lean be implemented?</QUESTION>

<OPTION1>Requirement phase</OPTION1>

<OPTION2>Design phase</OPTION2>

<OPTION3>CUT &amp; ST phases</OPTION3>

<OPTION4>All of the above </OPTION4>

<ANSWER>All of the above</ANSWER>

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<QNo>27</QNo>

<QUESTION>The delivery team uses white boards to monitor the status of the tickets, automates routine jobs, maintains checklist and implements learning from previous releases. The team does not have a knowledge of Lean and has never attended any Lean training sessions. Is Lean being practiced in the project</QUESTION>

<OPTION1>Yes</OPTION1>

<OPTION2>No</OPTION2>

<OPTION3>Can&apos;t answer</OPTION3>

<OPTION4>None of the above</OPTION4>

<ANSWER>Yes</ANSWER>

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<QNo>28</QNo>

<QUESTION>The management decisions in a company practicing Lean philosophy is based on</QUESTION>

<OPTION1>Waste elimination</OPTION1>

<OPTION2>Short term financial gains </OPTION2>

<OPTION3>Long term thinking even at short term financial expense</OPTION3>

<OPTION4>Medium term thinking but with high operating margins</OPTION4>

<ANSWER>Long term thinking even at short term financial expense</ANSWER>

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<QNo>29</QNo>

<QUESTION>Which of the following are two key pillars of the Toyota Production System?</QUESTION>

<OPTION1>Just-in-Time and Waste Elimination</OPTION1>

<OPTION2>Jidoka and Just in Time</OPTION2>

<OPTION3>Visual Management and Kaizen</OPTION3>

<OPTION4>Standardisation and Leveled Production</OPTION4>

<ANSWER>Jidoka and Just in Time</ANSWER>

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<QNo>30</QNo>

<QUESTION>The culture of stopping when there is a quality problem is called</QUESTION>

<OPTION1>Waste elimination</OPTION1>

<OPTION2>Standardisation</OPTION2>

<OPTION3>Jidoka</OPTION3>

<OPTION4>None of the above</OPTION4>

<ANSWER>Jidoka</ANSWER>

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<QNo>31</QNo>

<QUESTION>Which of the following is a technique involving simple inexpensive automatic mechanisms or manual inspection in a station, that makes the quality issues obvious at a glance?</QUESTION>

<OPTION1>Visual Control</OPTION1>

<OPTION2>Value Steam Mapping</OPTION2>

<OPTION3>both 1 and 2</OPTION3>

<OPTION4>Poka Yoke</OPTION4>

<ANSWER>Poka Yoke</ANSWER>

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<QNo>32</QNo>

<QUESTION>The roots of Lean thinking can be traced back to</QUESTION>

<OPTION1>Harvard</OPTION1>

<OPTION2>GE</OPTION2>

<OPTION3>Honda</OPTION3>

<OPTION4>Toyota</OPTION4>

<ANSWER>Toyota</ANSWER>

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<QNo>33</QNo>

<QUESTION>Lean principle is based on management decisions adopting a \_\_\_\_\_\_\_\_\_\_\_\_\_ philosophy"</QUESTION>

<OPTION1>Short Term</OPTION1>

<OPTION2>Medium Term</OPTION2>

<OPTION3>Long Term</OPTION3>

<OPTION4>All of the above</OPTION4>

<ANSWER>Long Term</ANSWER>

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<QNo>34</QNo>

<QUESTION>What is the main purpose of Visual Controls?</QUESTION>

<OPTION1>To show status to upper management</OPTION1>

<OPTION2>To show status to customer </OPTION2>

<OPTION3>To bring out operational problems affecting for early resolution </OPTION3>

<OPTION4>None of the above </OPTION4>

<ANSWER>To bring out operational problems affecting for early resolution</ANSWER>

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<QNo>35</QNo>

<QUESTION>Which of the following is NOT part of 5 S?</QUESTION>

<OPTION1>SORT</OPTION1>

<OPTION2>Straighten</OPTION2>

<OPTION3>Soften</OPTION3>

<OPTION4>Standardize</OPTION4>

<ANSWER>Soften</ANSWER>

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<QNo>36</QNo>

<QUESTION>Takt time is a ratio of the 'Net available time' to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Total Supply</OPTION1>

<OPTION2>Customer demand</OPTION2>

<OPTION3>Both</OPTION3>

<OPTION4>None</OPTION4>

<ANSWER>Customer demand</ANSWER>

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<QNo>37</QNo>

<QUESTION>Poka Yoke is \_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Mistake Proofing</OPTION1>

<OPTION2>Visual Control</OPTION2>

<OPTION3>Standarization</OPTION3>

<OPTION4>None of above</OPTION4>

<ANSWER>Mistake Proofing</ANSWER>

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<QNo>38</QNo>

<QUESTION>The "5 Why?" is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_ technique</QUESTION>

<OPTION1>5 S</OPTION1>

<OPTION2>RCA</OPTION2>

<OPTION3>DSM</OPTION3>

<OPTION4>None of the above</OPTION4>

<ANSWER>RCA</ANSWER>

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<QNo>39</QNo>

<QUESTION>Lean thinking advocates \_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Push Systems</OPTION1>

<OPTION2>Pull Systems</OPTION2>

<OPTION3>both</OPTION3>

<OPTION4>None</OPTION4>

<ANSWER>Pull Systems</ANSWER>

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<QNo>40</QNo>

<QUESTION>Andon board is an example of \_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Visual Control</OPTION1>

<OPTION2>Dashboard</OPTION2>

<OPTION3>Network diagram</OPTION3>

<OPTION4>None of the above</OPTION4>

<ANSWER>Visual Control</ANSWER>

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<QNo>41</QNo>

<QUESTION>To reduce test setup change-over time, you considered SMED technique. Which of the following principles can help?</QUESTION>

<OPTION1>Displace</OPTION1>

<OPTION2>Eliminiate</OPTION2>

<OPTION3>Standardize</OPTION3>

<OPTION4>All of the above</OPTION4>

<ANSWER>All of the above</ANSWER>

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<QNo>42</QNo>

<QUESTION>Customer expects the team to test 10 features in 20 working days. What is the takt time?</QUESTION>

<OPTION1>10 features/month</OPTION1>

<OPTION2>2 days/feature</OPTION2>

<OPTION3>0.5 features/day</OPTION3>

<OPTION4>None of above</OPTION4>

<ANSWER>2 days/feature</ANSWER>

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<QNo>43</QNo>

<QUESTION>Which of the following is a part of the Lean philosophy?</QUESTION>

<OPTION1>Management decisions based on a long term perspective</OPTION1>

<OPTION2>Stop when there is a quality problem</OPTION2>

<OPTION3>Leaders going to the actual workplace to see and understand throughly</OPTION3>

<OPTION4>All of the above</OPTION4>

<ANSWER>All of the above</ANSWER>

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<QNo>44</QNo>

<QUESTION>Following are categories of waste</QUESTION>

<OPTION1>Overproduction</OPTION1>

<OPTION2>Transportation</OPTION2>

<OPTION3>Motion</OPTION3>

<OPTION4>All of the above</OPTION4>

<ANSWER>All of the above</ANSWER>

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<QNo>45</QNo>

<QUESTION>An effective way to make team memebrs aware of progress made and currents status is through</QUESTION>

<OPTION1>Visual Boards</OPTION1>

<OPTION2>Poka - yoke</OPTION2>

<OPTION3>Mura</OPTION3>

<OPTION4>Muri</OPTION4>

<ANSWER>Visual Boards</ANSWER>

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<QNo>46</QNo>

<QUESTION>Mistake proofing is</QUESTION>

<OPTION1>Andon</OPTION1>

<OPTION2>Poka - yoke</OPTION2>

<OPTION3>Mura</OPTION3>

<OPTION4>Muri</OPTION4>

<ANSWER>Poka - yoke</ANSWER>

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<QNo>47</QNo>

<QUESTION>Over production is avoided by using \_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Pull system</OPTION1>

<OPTION2>Poka - yoke</OPTION2>

<OPTION3>Mura</OPTION3>

<OPTION4>Push system</OPTION4>

<ANSWER>Pull system</ANSWER>

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<QNo>48</QNo>

<QUESTION>How many Lean principles are there according to Jeffrey Liker as presented in "The Toyoto Way"</QUESTION>

<OPTION1>5</OPTION1>

<OPTION2>10</OPTION2>

<OPTION3>14</OPTION3>

<OPTION4>None of the above</OPTION4>

<ANSWER>14</ANSWER>

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<QNo>49</QNo>

<QUESTION>How many categories of wastes can be identified as per the Toyota Production System?</QUESTION>

<OPTION1>7</OPTION1>

<OPTION2>10</OPTION2>

<OPTION3>100</OPTION3>

<OPTION4>20</OPTION4>

<ANSWER>7</ANSWER>

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<QNo>50</QNo>

<QUESTION>&quot;Upstream should not produce anything till downstream asks for it&quot; is a part of which Lean principle</QUESTION>

<OPTION1>Poka- yoke</OPTION1>

<OPTION2>DSM</OPTION2>

<OPTION3>Push Mechanismans</OPTION3>

<OPTION4>Pull mechanism</OPTION4>

<ANSWER>Pull mechanism</ANSWER>

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<QNo>51</QNo>

<QUESTION>The practice in 5S framework by which the work place efficiency is maintained is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Sort</OPTION1>

<OPTION2>Shine</OPTION2>

<OPTION3>Sustain</OPTION3>

<OPTION4>All of the above</OPTION4>

<ANSWER>Sustain</ANSWER>

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<QNo>52</QNo>

<QUESTION>"Pace of production to meet customer demand" is related to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Takt Time</OPTION1>

<OPTION2>Talk Time</OPTION2>

<OPTION3>Delay time</OPTION3>

<OPTION4>All of the above</OPTION4>

<ANSWER>Takt Time</ANSWER>

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<QNo>53</QNo>

<QUESTION>Spending time to finding information can be mapped to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ waste</QUESTION>

<OPTION1>Overproduction</OPTION1>

<OPTION2>Inventory</OPTION2>

<OPTION3>Motion</OPTION3>

<OPTION4>All of the above</OPTION4>

<ANSWER>Motion</ANSWER>

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<QNo>54</QNo>

<QUESTION>A tool in the work area giving the current status of the work</QUESTION>

<OPTION1>Visual Control Board</OPTION1>

<OPTION2>SMED</OPTION2>

<OPTION3>Both 1 and 2</OPTION3>

<OPTION4>None</OPTION4>

<ANSWER>Visual Control Board</ANSWER>

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<QNo>55</QNo>

<QUESTION>Employing tools to do work otherwise done by people results in reduction of \_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Efforts</OPTION1>

<OPTION2>Schedule</OPTION2>

<OPTION3>Defects</OPTION3>

<OPTION4>1, 2 and 3</OPTION4>

<ANSWER>1, 2 and 3</ANSWER>

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<QNo>56</QNo>

<QUESTION>Automated detection and stopping when a defect occurs is related to \_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Automation</OPTION1>

<OPTION2>Jidoka (autonomation)</OPTION2>

<OPTION3>Genchi Genbutsu</OPTION3>

<OPTION4>Visual Controls</OPTION4>

<ANSWER>Jidoka (autonomation)</ANSWER>

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<QNo>57</QNo>

<QUESTION>In TPS, high levels of quality is achieved by the principles of</QUESTION>

<OPTION1>Jidoka</OPTION1>

<OPTION2>Poka Yoke</OPTION2>

<OPTION3>Both 1 and 2</OPTION3>

<OPTION4>None</OPTION4>

<ANSWER>Both 1 and 2</ANSWER>

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<QNo>58</QNo>

<QUESTION>According to Lean thinking, problems should be addressed at</QUESTION>

<OPTION1>Root Cause level</OPTION1>

<OPTION2>Manager level</OPTION2>

<OPTION3>Operator level</OPTION3>

<OPTION4>All the above</OPTION4>

<ANSWER>Root Cause level</ANSWER>

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<QNo>59</QNo>

<QUESTION>Kaizen can result in an improvement in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Quality</OPTION1>

<OPTION2>Throughput</OPTION2>

<OPTION3>Both 1 and 2</OPTION3>

<OPTION4>None</OPTION4>

<ANSWER>Both 1 and 2</ANSWER>

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<QNo>60</QNo>

<QUESTION>Problems identified are displayed for everyone's attention rather than covering up</QUESTION>

<OPTION1>Make the problem visibile</OPTION1>

<OPTION2>Make it fast</OPTION2>

<OPTION3>Make it beautiful</OPTION3>

<OPTION4>None</OPTION4>

<ANSWER>Make the problem visibile</ANSWER>

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<QNo>61</QNo>

<QUESTION>Any activity that consumes resources, but does not create value is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Muda</OPTION1>

<OPTION2>Mura</OPTION2>

<OPTION3>Muri</OPTION3>

<OPTION4>All the above</OPTION4>

<ANSWER>Muda</ANSWER>

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<QNo>62</QNo>

<QUESTION>Tasks with clear specification on the input, process, time and output are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Fixed</OPTION1>

<OPTION2>standardized</OPTION2>

<OPTION3>Designed</OPTION3>

<OPTION4>All the above</OPTION4>

<ANSWER>standardized</ANSWER>

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<QNo>63</QNo>

<QUESTION>Identification of all activities occuring along the life cycle of the product is \_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Value Creation</OPTION1>

<OPTION2>Value Stream Mapping</OPTION2>

<OPTION3>Customer Value</OPTION3>

<OPTION4>None</OPTION4>

<ANSWER>Value Stream Mapping</ANSWER>

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<QNo>64</QNo>

<QUESTION>Making more parts than you can sell is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Overprocessing</OPTION1>

<OPTION2>Overproduction</OPTION2>

<OPTION3>Both 1 and 2</OPTION3>

<OPTION4>None</OPTION4>

<ANSWER>Overproduction</ANSWER>

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<QNo>65</QNo>

<QUESTION>Optimization of current state map gives the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Optimized map</OPTION1>

<OPTION2>Value map</OPTION2>

<OPTION3>Future state map</OPTION3>

<OPTION4>All the above</OPTION4>

<ANSWER>Future state map</ANSWER>

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<QNo>66</QNo>

<QUESTION>In the 5 Why analysis, if the root cause is not identified at the 5th Why, one should \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Stop</OPTION1>

<OPTION2>Start afresh</OPTION2>

<OPTION3>Continue</OPTION3>

<OPTION4>None</OPTION4>

<ANSWER>Continue</ANSWER>

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<QNo>67</QNo>

<QUESTION>The slowest operation in a process is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Work stopper</OPTION1>

<OPTION2>Bottleneck</OPTION2>

<OPTION3>Both 1 and 2</OPTION3>

<OPTION4>None</OPTION4>

<ANSWER>Bottleneck</ANSWER>

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<QNo>68</QNo>

<QUESTION>What is the ongoing process/philosophy of doing things better, faster and lower cost?</QUESTION>

<OPTION1>Continuous Processs</OPTION1>

<OPTION2>Continuous Engineering</OPTION2>

<OPTION3>Continuous Improvement</OPTION3>

<OPTION4>None</OPTION4>

<ANSWER>Continuous Improvement</ANSWER>

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<QNo>69</QNo>

<QUESTION>Giving employees more responsibility, authority and accountability for effecting improvements that are within their purview in the daily processes is Employee \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Empowerment</OPTION1>

<OPTION2>Engagement</OPTION2>

<OPTION3>Endearment</OPTION3>

<OPTION4>None</OPTION4>

<ANSWER>Empowerment</ANSWER>

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<QNo>70</QNo>

<QUESTION>Lean practices optimizes the</QUESTION>

<OPTION1>Cost</OPTION1>

<OPTION2>Qualitty</OPTION2>

<OPTION3>Schedule</OPTION3>

<OPTION4>All the above</OPTION4>

<ANSWER>All the above</ANSWER>

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<QNo>71</QNo>

<QUESTION>Achieving predictability of the outcome and making it repeatable is ensured through \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Concurrent Engineering </OPTION1>

<OPTION2>Predictive Engineering</OPTION2>

<OPTION3>Standardization</OPTION3>

<OPTION4>All the above</OPTION4>

<ANSWER>Standardization</ANSWER>

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<QNo>72</QNo>

<QUESTION>Genchi Genbatsu is part of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ category in Liker's 14 principle model</QUESTION>

<OPTION1>Process</OPTION1>

<OPTION2>People and Partners</OPTION2>

<OPTION3>Problem Solving</OPTION3>

<OPTION4>Philosophy</OPTION4>

<ANSWER>Problem Solving</ANSWER>

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<QNo>73</QNo>

<QUESTION>What is Hansei?</QUESTION>

<OPTION1>Reflection</OPTION1>

<OPTION2>Refraction</OPTION2>

<OPTION3>Retraction</OPTION3>

<OPTION4>Renovation</OPTION4>

<ANSWER> Reflection</ANSWER>

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<QNo>74</QNo>

<QUESTION>Problems should not remain hidden. They should be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ early.</QUESTION>

<OPTION1>Standardized</OPTION1>

<OPTION2>Optimized </OPTION2>

<OPTION3>Surfaced </OPTION3>

<OPTION4>All the above </OPTION4>

<ANSWER>Surfaced</ANSWER>

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<QNo>75</QNo>

<QUESTION>An engineer fixes a bug request from the customer. The customer value here is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Fixed Bug</OPTION1>

<OPTION2>No side effect</OPTION2>

<OPTION3>Both 1 and 2</OPTION3>

<OPTION4>None</OPTION4>

<ANSWER>Both 1 and 2</ANSWER>

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<QNo>76</QNo>

<QUESTION>Attributes of value deliverables areTimelinessCost</QUESTION>

<OPTION1>Quality</OPTION1>

<OPTION2>Timeliness</OPTION2>

<OPTION3>Cost</OPTION3>

<OPTION4>All the above</OPTION4>

<ANSWER>All the above</ANSWER>

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<QNo>77</QNo>

<QUESTION>According to Lean thinking, leaders should work with first hand information from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by direct observation.</QUESTION>

<OPTION1>Customers</OPTION1>

<OPTION2>Workplace</OPTION2>

<OPTION3>Both 1 and 2</OPTION3>

<OPTION4>None</OPTION4>

<ANSWER>Workplace</ANSWER>

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<QNo>78</QNo>

<QUESTION>Which of the following are examples for Muda?</QUESTION>

<OPTION1>Hand off </OPTION1>

<OPTION2>Task Switching</OPTION2>

<OPTION3>Both 1 and 2</OPTION3>

<OPTION4>None</OPTION4>

<ANSWER>Both 1 and 2</ANSWER>

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<QNo>79</QNo>

<QUESTION>In a maintenance project with a 3 month release cycle, the team idles during the first six weeks due to lack of clarity. The customer expects team to work as per the planned efforts in the remaining 6 weeks. This will lead to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Task switching</OPTION1>

<OPTION2>Overload</OPTION2>

<OPTION3>Poor quality</OPTION3>

<OPTION4>Both 2 and 3</OPTION4>

<ANSWER>Both 2 and 3</ANSWER>

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<QNo>80</QNo>

<QUESTION>The purpose of VSM is to \_\_\_\_\_\_\_\_\_\_\_\_ and eliminate waste</QUESTION>

<OPTION1>Standardize</OPTION1>

<OPTION2>Empower</OPTION2>

<OPTION3>Identify</OPTION3>

<OPTION4>None</OPTION4>

<ANSWER>Identify</ANSWER>

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<QNo>81</QNo>

<QUESTION>\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the time taken for those activities that actually transform the product/service in a way that the customer is willing to pay for</QUESTION>

<OPTION1>Takt Time</OPTION1>

<OPTION2>Activity Time</OPTION2>

<OPTION3>Cycle Time</OPTION3>

<OPTION4>Value Added Time</OPTION4>

<ANSWER>Value Added Time</ANSWER>

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<QNo>82</QNo>

<QUESTION>Those activities that are not mandatory to provide what customer wants are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Important</OPTION1>

<OPTION2>Non Value Add</OPTION2>

<OPTION3>Both 1 and 2</OPTION3>

<OPTION4>None</OPTION4>

<ANSWER>Non Value Add</ANSWER>

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<QNo>83</QNo>

<QUESTION>\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is an activity that transforms the input, thereby bringing it closer to the form required by a customer</QUESTION>

<OPTION1>Value Add</OPTION1>

<OPTION2>Muda</OPTION2>

<OPTION3>Muri</OPTION3>

<OPTION4>None</OPTION4>

<ANSWER>Value Add</ANSWER>

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<QNo>84</QNo>

<QUESTION>Mechanisms (other than inspection at a work place) to achieve in-station quality by prevention is an example of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Jidoka</OPTION1>

<OPTION2>Heijunka</OPTION2>

<OPTION3>Poka Yoke</OPTION3>

<OPTION4>All the above</OPTION4>

<ANSWER>Poka Yoke</ANSWER>

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<QNo>85</QNo>

<QUESTION>Principles of 5S aim at achieving</QUESTION>

<OPTION1>Efficient work place</OPTION1>

<OPTION2>Jidoka</OPTION2>

<OPTION3>Efficient task switching</OPTION3>

<OPTION4>None</OPTION4>

<ANSWER>Efficient work place</ANSWER>

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<QNo>86</QNo>

<QUESTION>Standardization helps to reduce variance in</QUESTION>

<OPTION1>Cycle time</OPTION1>

<OPTION2>Quality</OPTION2>

<OPTION3>Both 1 and 2</OPTION3>

<OPTION4>None</OPTION4>

<ANSWER>Both 1 and 2</ANSWER>

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<QNo>87</QNo>

<QUESTION>Standardized work and environment are the basis for</QUESTION>

<OPTION1>Continuous improvement</OPTION1>

<OPTION2>Defect prevention</OPTION2>

<OPTION3>Both 1 and 2</OPTION3>

<OPTION4>None</OPTION4>

<ANSWER>Continous Improvement</ANSWER>

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<QNo>88</QNo>

<QUESTION>An operating model with in-station quality is found in</QUESTION>

<OPTION1>Mass production approach</OPTION1>

<OPTION2>Toyota Production System</OPTION2>

<OPTION3>Both 1 and 2</OPTION3>

<OPTION4>None</OPTION4>

<ANSWER>Toyota Production System</ANSWER>

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<QNo>89</QNo>

<QUESTION>Use of code analysis tools as the code is developed is an example of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Concurrent Engineering</OPTION1>

<OPTION2>In station quality</OPTION2>

<OPTION3>first things first</OPTION3>

<OPTION4>None</OPTION4>

<ANSWER>In station quality</ANSWER>

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<QNo>90</QNo>

<QUESTION>Kaizen is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>An activity that causes an incidental problem</OPTION1>

<OPTION2>An activity that causes a recurrent problem</OPTION2>

<OPTION3>An activity that enables continuous improvement</OPTION3>

<OPTION4>None of the above</OPTION4>

<ANSWER>An activity that enables continuous improvement</ANSWER>

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<QNo>91</QNo>

<QUESTION>The 5 Ws of root cause analysis are</QUESTION>

<OPTION1>Who, what, where, when, why</OPTION1>

<OPTION2>What, where, when, who, why</OPTION2>

<OPTION3>Who, who, who, who, who</OPTION3>

<OPTION4>Why, why, why, why, why</OPTION4>

<ANSWER>Why, why, why, why, why</ANSWER>

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<QNo>92</QNo>

<QUESTION>Automatically stopping the process when something is wrong and then fixing the problems on the line itself as they occur is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Heijunka</OPTION1>

<OPTION2>Jidoka</OPTION2>

<OPTION3>Kaizen</OPTION3>

<OPTION4>Kanban</OPTION4>

<ANSWER>Jidoka</ANSWER>

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<QNo>93</QNo>

<QUESTION>Which of the following are examples of Muda (waste) in the process which should be eliminated?</QUESTION>

<OPTION1>Doing work manually when it can be automated</OPTION1>

<OPTION2>Equipment not working</OPTION2>

<OPTION3>Spending efforts in processing repetitive issues</OPTION3>

<OPTION4>All of the above</OPTION4>

<ANSWER>All of the above</ANSWER>

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<QNo>94</QNo>

<QUESTION>Lean is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Action Oriented</OPTION1>

<OPTION2>Continuous Improvement</OPTION2>

<OPTION3>Process toolkit</OPTION3>

<OPTION4>All of the above</OPTION4>

<ANSWER>All of the above</ANSWER>

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<QNo>95</QNo>

<QUESTION>Lean is not \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Short term gain</OPTION1>

<OPTION2>Problem Solver</OPTION2>

<OPTION3>Action Oriented</OPTION3>

<OPTION4>Continous Improvement</OPTION4>

<ANSWER>Short term gain</ANSWER>

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<QNo>96</QNo>

<QUESTION>The deciding factors for automation are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Feasibility</OPTION1>

<OPTION2>Return of Investment</OPTION2>

<OPTION3>Frequency</OPTION3>

<OPTION4>All the above</OPTION4>

<ANSWER>All of the above</ANSWER>

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<QNo>97</QNo>

<QUESTION>Understanding the actual situation is known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Capacity Planning</OPTION1>

<OPTION2>Mistake Proofing</OPTION2>

<OPTION3>SS</OPTION3>

<OPTION4>Go and see Yourself</OPTION4>

<ANSWER>Go and see Yourself</ANSWER>

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<QNo>98</QNo>

<QUESTION>Use \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to reduce setup/changeover time</QUESTION>

<OPTION1>SMED</OPTION1>

<OPTION2>5S</OPTION2>

<OPTION3>RCA</OPTION3>

<OPTION4>VSM</OPTION4>

<ANSWER>SMED</ANSWER>

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<QNo>99</QNo>

<QUESTION>Issue log or KEDB helps in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1> Mistake proofing</OPTION1>

<OPTION2>Automation</OPTION2>

<OPTION3>VSM</OPTION3>

<OPTION4>Competency management</OPTION4>

<ANSWER>Mistake proofing</ANSWER>

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<QNo>100</QNo>

<QUESTION>The PM defines the coding standard for a new technology before the development starts. Based on these guidelines, he also reconfigures the code review tool. Choose the Lean tenets PM has applied</QUESTION>

<OPTION1>Standardization &amp; Mistake proofing</OPTION1>

<OPTION2>Standardization &amp; Statistical Analysis</OPTION2>

<OPTION3> Only Standardization</OPTION3>

<OPTION4>5S and Mistake proofing</OPTION4>

<ANSWER>Standardization &amp; Mistake proofing</ANSWER>

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<QNo>101</QNo>

<QUESTION>What are the 5 STEPS of 5S?</QUESTION>

<OPTION1>Shine, Solve, Sustain, Sort, Standardize</OPTION1>

<OPTION2>Sustain, Sort, Standardize, Set, Shine</OPTION2>

<OPTION3>Sort, Straighten, Shine, Standardize, Sustain</OPTION3>

<OPTION4>Sort, Sustain, Sushi, Shine, Standardize</OPTION4>

<ANSWER>Sort, Straighten, Shine, Standardize, Sustain</ANSWER>

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<QNo>102</QNo>

<QUESTION>Which statements defines "VALUE"?</QUESTION>

<OPTION1>The customer has to be willing to pay for the activity</OPTION1>

<OPTION2>The activity must "directly transform" the item or person flowing through the process into what the customer is willing to pay for.</OPTION2>

<OPTION3>The activity must meet all expected requirements on the first attempt</OPTION3>

<OPTION4>All of the above</OPTION4>

<ANSWER>All of the above</ANSWER>

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<QNo>103</QNo>

<QUESTION>A checklist is a simple example for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Mistake proofing</OPTION1>

<OPTION2>Standardization</OPTION2>

<OPTION3>SMED</OPTION3>

<OPTION4>5S</OPTION4>

<ANSWER>Mistake Proofing</ANSWER>

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<QNo>104</QNo>

<QUESTION>What is the first step in the VSM?</QUESTION>

<OPTION1>Draw the Value stream mapping(As-IS)</OPTION1>

<OPTION2>Identify the customer Value deliverable</OPTION2>

<OPTION3>Remove the wastes</OPTION3>

<OPTION4>Identify the Value added and Non value added activities</OPTION4>

<ANSWER>Identify the customer Value deliverable</ANSWER>

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<QNo>105</QNo>

<QUESTION>In a project X, few resources are overburdened due to disparity of competency in teams. This situation is a result of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Muda</OPTION1>

<OPTION2>Muri</OPTION2>

<OPTION3>Mura</OPTION3>

<ANSWER>Muri</ANSWER>

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<QNo>106</QNo>

<QUESTION>Which of the following tenets is used for work place management?</QUESTION>

<OPTION1>SMED</OPTION1>

<OPTION2>5S</OPTION2>

<OPTION3>VSM</OPTION3>

<OPTION4>DSM</OPTION4>

<ANSWER>5S</ANSWER>

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<QNo>107</QNo>

<QUESTION>Which of the following Lean methodologies can be used to identify the waste in the process?</QUESTION>

<OPTION1>DSM</OPTION1>

<OPTION2>5S</OPTION2>

<OPTION3>VSM</OPTION3>

<OPTION4>CMMI</OPTION4>

<ANSWER>VSM</ANSWER>

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<QNo>108</QNo>

<QUESTION>Identify the applicable tenet used for identifying the root cause of the problem</QUESTION>

<OPTION1>5S</OPTION1>

<OPTION2>Statistical Analysis</OPTION2>

<OPTION3>5WHY</OPTION3>

<OPTION4>PDCA</OPTION4>

<ANSWER>5 WHY</ANSWER>

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<QNo>109</QNo>

<QUESTION>In an application maintenance project, the team was following the practice of placing a Red flag in front of the engineer who was stuck up with a problem related to resolving the incident. This is an example of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Standardization</OPTION1>

<OPTION2>Kanban</OPTION2>

<OPTION3>Andon</OPTION3>

<OPTION4>None of the above</OPTION4>

<ANSWER>Andon</ANSWER>

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<QNo>110</QNo>

<QUESTION>How many guiding principles does Lean have?</QUESTION>

<OPTION1>11</OPTION1>

<OPTION2>7</OPTION2>

<OPTION3>12</OPTION3>

<OPTION4>14</OPTION4>

<ANSWER>14</ANSWER>

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<QNo>111</QNo>

<QUESTION>\_\_\_\_\_\_\_\_\_\_\_\_\_ provides a complete visibility of all work items and status in the team</QUESTION>

<OPTION1>Standardization</OPTION1>

<OPTION2>Mistake Proofing</OPTION2>

<OPTION3>Visual Control</OPTION3>

<OPTION4>ecube</OPTION4>

<ANSWER>Visual Control</ANSWER>

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<QNo>112</QNo>

<QUESTION>TPS is an integrated socio-technical system, developed by \_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Ford</OPTION1>

<OPTION2>Toyota</OPTION2>

<OPTION3>Wipro</OPTION3>

<OPTION4>IBM</OPTION4>

<ANSWER>Toyota</ANSWER>

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<QNo>113</QNo>

<QUESTION>Which of the following is not part of 5S?</QUESTION>

<OPTION1>Sort</OPTION1>

<OPTION2>Sustain</OPTION2>

<OPTION3>Shine</OPTION3>

<OPTION4>Sequence</OPTION4>

<ANSWER>Sequence</ANSWER>

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<QNo>114</QNo>

<QUESTION>According to Womack Lean thinking consists of \_\_\_\_\_\_\_\_\_\_ core principles</QUESTION>

<OPTION1>3</OPTION1>

<OPTION2>7</OPTION2>

<OPTION3>14</OPTION3>

<OPTION4>5</OPTION4>

<ANSWER>5</ANSWER>

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<QNo>115</QNo>

<QUESTION>Which of these are not a core Lean principle according to Womack</QUESTION>

<OPTION1>Pull</OPTION1>

<OPTION2>Flow</OPTION2>

<OPTION3>Value</OPTION3>

<OPTION4>Push</OPTION4>

<ANSWER>Push</ANSWER>

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<QNo>116</QNo>

<QUESTION>The principle of flow emphasizes on \_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>reduction in batch size</OPTION1>

<OPTION2>Moving to next phase as quickly as possible</OPTION2>

<OPTION3>Individual productivity</OPTION3>

<OPTION4>Customer satisfaction</OPTION4>

<ANSWER>reduction in batch size</ANSWER>

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<QNo>117</QNo>

<QUESTION>SMED stands for \_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION>

<OPTION1>Single Minute Exchange of Dies</OPTION1>

<OPTION2>Simply More Energy Daily</OPTION2>

<OPTION3>Simplest Most Effective Design</OPTION3>

<OPTION4>Sampling Method for Effort Deviation</OPTION4>

<ANSWER>Single Minute Exchange of Dies</ANSWER>

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