Human Systems Integration
Risk Management Tool
A Standalone Application

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• PURPOSE
• DESCRIPTION
• RISK MANAGEMENT
• USABILITY TESTING
• DEMO
• QUESTIONS
PURPOSE

- HSI Practitioner’s Aid to track & evaluate HSI activities
- Resource for knowing what to do and when
- Coordinate activities across HSI domains
- Reduce human performance risk
- Reporting vehicle for colleagues and managers
**HSI-RMT**

**• HSI-Risk Management Tool (RMT)**

- Combined HSI-CART and HSI-PRAT into one tool
- Consistent questionnaire format across tool
- Increased breadth of analysis (cradle to grave)
- Covers all domains
- Trade-off analysis
- Integrated platform for risk management
- Improved usability
<table>
<thead>
<tr>
<th>HSI-CART</th>
<th>HSI-PRAT</th>
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<tbody>
<tr>
<td>1. CD</td>
<td>1. MSA</td>
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<td>2. CBA</td>
<td>2. TMRR</td>
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<td>3. AOA</td>
<td>3. EMD</td>
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<td>5. OS</td>
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1.01 Have any new stakeholders been identified?

COMMENT: Contract has been awarded to XYZ Human Engineering Corp for a ground control station upgrade. Will be forming an HSI WG.
DOD RISK MANAGEMENT STRATEGY

Risk Monitoring
Risk Planning
Risk Identification
Risk Analysis
Risk Handling
Communication and Feedback
PRAT: TMRR: HFE 2.02  Are system functional requirements compliant with user needs and HFE design standards?

YES

COMMENT: System functional requirements comply with MIL STD 1472 but have not been verified with user.
• Risk Handling
  • Answers: “What is the plan to address risk?”
    • Options include: Accept, Avoid, Transfer, Control
  • Choose best implementation approach
  • Is risk mitigation plan feasible, affordable, in time, have significant impact on the risk?

• Risk Monitoring
  • Answers “How has the risk changed?” and “How are the risk mitigation plans working?”
  • Systematically and continuously track and evaluate the performance of risk mitigation plans against human metrics
## EMD – General – Q1.15 Risk 15:

1) **What is the risk mitigation strategy?**
   - a) Accept
   - b) Transfer
   - c) Avoid
   - d) Control

2) **Does the risk impact primarily cost, schedule, or performance?**
   - a) Cost
   - b) Schedule
   - c) Performance

3) **What is the risk mitigation plan?** Be sure to identify who is responsible for monitoring the risk, the desired timeline as applicable, and affordability and feasibility.

   *Enter text here...*

4) **How is the mitigation plan being monitored and tracked?**

   *Enter text here...*

5) **Have the appropriate stakeholders been informed?**
   - a) Yes
   - b) No

6) **Have the mitigation strategy and plan been documented and presented at all relevant decision points?**
   - a) Yes
   - b) No
UX/Usability Testing

• **Features**

  • Accessibility via keyboard shortcuts for navigation
  • Acronym rollover dictionary
  • Auto focus on textboxes
  • Automatic saving of input
  • Saved state (you go the last place you were in the project)
  • Consistency of design across questionnaires
  • Frequent feedback to the user
  • Ability to archive old projects
  • Simplified integration section
QUESTIONS