Blood Culture Contamination Green Belt Project

**Define**
- Contaminated blood cultures above national benchmark of <3 percent
- Root causes:
  - Contaminated supplies
  - Break in technique, too many steps
  - Fast pace unit
  - Lack of Education

**Measure**
- Tracking of monthly blood culture contamination and identifying staff needing education

**Analyze**
- Effectiveness of kits
- Identifying barriers
- Strengthening champions
- Incorporating in orientation

**Improve**
- Reducing steps from 22 to 12 steps, improving the collection technique
- Transparency and involvement of staff
- Empowerment and accountability of staff
- Management involvement
- Collaboration and communication with other services: Microbiology, IPC, Management

**Control**
- Blood culture contamination less than 3%
- ROI: cost saving of $332,500 within 5 months
- Sustaining measures and roll out to Critical Care

**Diagram:**
- Chart showing blood culture contamination rates and national benchmark.
- Graph illustrating the reduction of steps from 22 to 12.
- Table showing sustaining measures and intervention results.
- Comparison of number of cultures before and after implementation.

**Calculation of savings:**
- 112 - 17 = 95 less contamination from August to December
- 95 x $3500 (cost per contamination) = $332,500