



Table of Contents

1. Understanding Errors.....	1
Man versus machine	4
Environmental factors	9
Task relationship to errors	19
Individual's relationship to errors	20
2. Making Accuracy Easy.....	25
Process evaluation	26
Human-machine interface.....	29
Documents, forms, labels, and reports	30
Computer programs	40
Procedures and employee training.....	46
Documenting procedures	46
Procedure format/training materials	49
Training	52
Testing	57
Putting formal checks in place	59
Other ways to make accuracy easy	61
3. Making Accuracy Expected	63
Management's responsibility	65
Everybody's responsibility	69
Control methods	75

- 4. Cycle Counting 81**
 - Purpose of cycle counting 82
 - The standard cycle count program 84
 - Running the standard cycle count program 89
 - So what's wrong with the standard cycle count program? 92
 - Cycle count options 95
 - Event-triggered counting methods 96
 - Other methods 98
 - Combining count logic 100
 - Setting up and running your cycle count program 102

- 5. Periodic Physical Inventories 133**
 - Conducting a physical inventory 135
 - The preparation phase 137
 - Physical inventory methodology 140
 - Execution 148

- 6. Accuracy Measurement 151**
 - General accuracy measurement 152
 - Benchmarking accuracy 163
 - Specific-process accuracy measurement 165
 - Measuring the impact of inaccuracy 169
 - What should my accuracy be? 172

- 7. Audits, Exception Reporting, and Data Analysis 179**
 - Audits 180
 - Accuracy audit 180
 - Location audit 185
 - Exception reporting 187
 - Data analysis 190
 - Knowledge of information systems revisited 192

- 8. Tools, Equipment, & Technology 195**
 - Calculators 197
 - Scales 198
 - Counting scales 199
 - Weight verification 204
 - Machine counters 206
 - Bar codes 207
 - Bar code printing 209
 - Bar code scanners 212

Application of a programmable keyboard wedge system	216
Portable computers	218
Batch versus RF	218
Hand-held devices	218
Vehicle-mounted devices	222
Wearable systems	223
Voice systems	225
Radio frequency identification (RFID)	228
Light-directed systems	231
Full automation	233
Integration	234
Software technologies	238
Locator systems	238
Warehouse management systems	243
Manufacturing execution systems	245
General technology comments	245
9. Specific Processes, Tips, & Misc.	247
How to count?	248
Receiving process tips	252
Putaway process tips	256
Order picking / shipping process tips	258
Returns processing	262
Negative inventory.	265
Non-stock inventory	268
Units-of-measure.	271
Unit packs, multi packs, inner packs, kits, and sets.	274
Lot and serial number tracking.	276
Multi-plant processing.	277
Substitutions	279
Outsourcing	280
Theft.	283
Manufacturing processes general observations	288
24/7	289
Point-of-use inventory and floor stock	292
Outside operations	293
Scrap reporting.	297
Work-in-process tracking	299
Backflushing and other issuing techniques	302
Transitions.	308
Glossary	311
Index	335