About the Workbook .............................................................................................................3

About the Author ................................................................................................................4

1: Healthcare Quality Management Introduction
  1-1: Elements of a Successful Quality Management Project ........................................5
  1-2: Contribution of Information Technology to Healthcare Performance ....................7
  1-3: Hospital Quality Management Structure ................................................................8
  1-4: Factors that Inhibit Improvements in Healthcare .....................................................8
  1-5: Use Publicly Available Performance Data to Judge Provider Quality ....................9
  1-6: Role of Governing Boards in High Performing Organizations ................................10

2: Measuring Healthcare Performance
  2-1: Structure, Process and Outcome Measures ..........................................................11
  2-2: Performance Measurement Numerators and Denominators ..................................12
  2-3: Measure Customer Satisfaction with an Important HIM Process ............................13
  2-4: Measures of Process Performance .....................................................................14
  2-5: Performance Measures for Outpatient Clinic .......................................................15

3: Managing Measurement Data
  3-1: Create a Survey Instrument ...............................................................................16
  3-2: Quality of Life Measurement Instruments .........................................................16
  3-3: Create a Cycle Time Data Collection Tool .........................................................17
  3-4: Measure Compliance with Clinical Practice Guidelines Using Data from EHR ........18
  3-5: Query an Online Data Source to Measure Performance .....................................19

4: Assessing Healthcare Performance
  4-1: Create and Interpret a Line Graph ...................................................................20
  4-2: Create a Histogram .........................................................................................21
  4-3: Create a Pie Chart ..........................................................................................21
  4-4: Create and Interpret a Bar Graph ......................................................................22
  4-5: Create and Interpret a Control Chart ...............................................................23
  4-6: Select Data Presentation Formats .......................................................................25
  4-7: Create a Corporate Report of Hospital Performance .........................................26
  4-8: Risk-Adjusted Performance Measures ................................................................27
  4-9: Analyze Patient Outcome Data .........................................................................28
5: Improvement Projects
5-1: Charter a Performance Improvement Project ................................................................. 29
5-2: Plan a Rapid Cycle Improvement Project ........................................................................ 31
5-3: Measure the Effectiveness of an Improvement Project .................................................. 32

6: Improvement Tools and Techniques
6-1: Create and Interpret a Pareto Chart .................................................................................. 33
6-2: Create and Interpret a Scatter Diagram .......................................................................... 34
6-3: Create and Analyze a Process Flowchart ........................................................................ 35
6-4: Create a Cause and Effect Diagram for an Improvement Project .................................... 37
6-5: Conduct a Force Field Analysis ....................................................................................... 38
6-6: Recognize Use for Common Performance Improvement Tools .................................... 39
6-7: Select PI Tools to Use During an Improvement Project .................................................. 41
6-8: Improve Process Reliability ............................................................................................ 42

7: Managing Risk and Patient Safety
7-1: Classify Patient Incidents .................................................................................................. 43
7-2: Report Patient Safety Measurement Data ......................................................................... 46
7-3: Conduct a Root Cause Analysis of a Sentinel Event ......................................................... 47
7-4: Analyze a Root Cause Analysis Investigation .................................................................. 49
7-5: Conduct a Failure Mode and Effects Analysis .................................................................. 50

8: Resource Management
8-1: Analyze Hospital Efficiency Report ................................................................................ 51
8-2: Identify Medical Appropriateness Guidelines ................................................................. 52
8-3: Use Criteria to Evaluate Appropriate Use of Healthcare Services .................................. 53
8-4: Identify Measurement Data for Outcomes Management Initiative .................................. 55
8-5: Query Healthcare Utilization Database ............................................................................ 56

9: Ensuring Individual Competence
9-1: Select Cases for Peer Review .......................................................................................... 57
9-2: Identify Sources of Physician Performance Expectation Data ....................................... 61
9-3: Document Medical Staff Peer Review Results ............................................................... 63
9-4: Measure Staff Competence ............................................................................................ 66