

- Topics to be covered:
 - Definitions will be provided throughout the presentation as applicable
 - Types of Quality Plans
 - Quality Management System Considerations
 - Product Realization Considerations
 - Quality Planning References
 - Quality Planning Tools

17 June 2009



"Quality Planning" presented by Diane G. Kulisek



Types of Quality Plans

- Quality Management Plan
 - Strategic Quality Plan
- Design and Development Plan
 - Verification and Validation Plan
 - Risk Management Plan
- Product Realization Plan
- Quality System Audit Plan

17 June 2009



"Quality Planning" presented by Diane G. Kulisek



3

Quality Planning: For ISO 13485 and 21 CFR 820 Compliance

Quality Management System Considerations

- Requirements
 - What ISO 13485 Requires
 - What 21 CFR 820 Requires

17 June 2009



"Quality Planning" presented by Diane G. Kulisek



What ISO 13485 Requires:

- 5. Management Responsibility
 - 5.4 Planning includes setting quality objectives for
 - the quality management system; AND
 - for medical devices & related services
 - Defining timeframes for achieving objectives
- 7. Product Realization
 - 7.1 Planning of product realization includes determination of:
 - product quality objectives & requirements
 - definition of medical device lifetime (record retention)
 - establishing processes & documents
 - resource needs
 - design and development
 - verification & validation
 - monitoring and inspection
 - test activities and product acceptance criteria
 - RISK MANAGEMENT; and
 - RECORDS

17 June 2009



"Quality Planning" presented by Diane G. Kulisek



5

Quality Planning: For ISO 13485 and 21 CFR 820 Compliance

■ What ISO 13485 Requires:

- 7.3 Design and development
 - Established procedures describing design processes and ALL design activities
 - goals and objectives of the design and development program (i.e. what is to be developed, timeline, etc.)
 - the markets intended
 - identification of organizational responsibilities with respect to assuring quality during the design and development phase, to include interface with any suppliers
 - identification of the major tasks by phases of the design
 - expected outputs (deliverables and records) from each phase

17 June 2009



"Quality Planning" presented by Diane G. Kulisek



What ISO 13485 Requires:

- 7.3 Design and development (cont'd)
 - Established procedures describing design processes and ALL design activities
 - identification of appropriate existing and anticipated measurement & monitoring devices for development of product specifications, verification, validation and production related activities
 - the selection of reviewers & composition of review teams
 - planning transfer to production
 - risk management activities
 - supplier selection

17 June 2009



"Quality Planning" presented by Diane G. Kulisek



/

Quality Planning: For ISO 13485 and 21 CFR 820 Compliance

What ISO 13485 Requires:

- 7.1 Planning of Product Realization
 - quality objectives and requirements for the product.
 - the need to establish processes, documents, and provide resources specific to the product.
 - required verification, validation, monitoring, inspection and test activities specific to the product, and the criteria for product acceptance.
 - records needed to provide evidence that the realization processes and resulting product meets requirements.
 - output of this planning in a form suitable for the organization's methods of operations.

Note: The organization is required to establish documented requirements for risk management throughout product realization.

- Records arising from risk management shall be maintained
- Also: see ISO 14971 for guidance related to risk management...

17 June 2009



"Quality Planning" presented by Diane G. Kulisek



What ISO 13485 Requires:

- 8.2.2 Internal audit
 - The organization shall conduct internal audits at planned intervals to determine whether the quality management system
 - a) conforms to the planned arrangements
 - An audit program shall be planned, taking into consideration
 - the status and importance of the processes
 - areas to be audited.
 - · results of previous audits.
 - The audit criteria, scope, frequency and methods shall be defined.

17 June 2009



"Quality Planning" presented by Diane G. Kulisek



9

Quality Planning: For ISO 13485 and 21 CFR 820 Compliance

- What 21 CFR 820 (cGMP for Medical Device Manufacturing) Requires:
 - 21 CFR Sub Part B Quality System Requirements Section 820.20 Management Responsibility:
 - (d) Quality planning. Each manufacturer shall establish a quality plan which defines the quality practices, resources, and activities relevant to devices that are designed and manufactured. The manufacturer shall establish how the requirements for quality will be met.

17 June 2009



"Quality Planning" presented by Diane G. Kulisek



- What 21 CFR 820 (cGMP for Medical Device Manufacturing) Requires:
 - 21 CFR Subpart C Design Controls 820.30 Design Controls:
 - (b) Design and development planning. Each manufacturer shall establish and maintain plans that describe or reference the design and development activities and define responsibility for implementation. The plans shall identify and describe the interfaces with different groups or activities that provide, or result in, input to the design and development process. The plans shall be reviewed, updated, and approved as design and development evolves.

17 June 2009



"Quality Planning" presented by Diane G. Kulisek



11

Quality Planning: For ISO 13485 and 21 CFR 820 Compliance

- Quality Management System Considerations
 - QMS Implementation
 - Quality Policy and Objectives
 - Quality Management System Structure
 - Records
 - Metrics

17 June 2009



"Quality Planning" presented by Diane G. Kulisek



Quality Policy Template

 "The [insert name] company provides safe, reliable, high quality, [insert product and/or service description] to [insert general customer reference, such as "Medical Device Industry" or "Health Care Professionals"] on time and in compliance with all applicable regulatory requirements."

17 June 2009



"Quality Planning" presented by Diane G. Kulisek



13

Quality Planning: For ISO 13485 and 21 CFR 820 Compliance

Tips for Selection of Quality Objectives

Use the S.M.A.R.T. criteria:



SPECIFIC



MEASURABLE



ATTAINABLE



RELEVANT



TIME-CONSTRAINED

17 June 2009



"Quality Planning" presented by Diane G. Kulisek



"Quality Metrics"

- A "metric" is a measure.
- "Quality" is something a "customer" defines.
- A "Quality Metric", therefore, is a measure of quality as defined by the customer.
 - NOTE 1: A "customer" might be defined as anybody with an expectation of receiving something of value in exchange for something else of value, either external to or internal to an organization.
 - NOTE 2: Not all "Metrics" are "Quality Metrics"

17 June 2009



"Quality Planning" presented by Diane G. Kulisek



15

Quality Planning: For ISO 13485 and 21 CFR 820 Compliance

KPI's

KPI = Key Performance Indicator

There are MANY definitions:

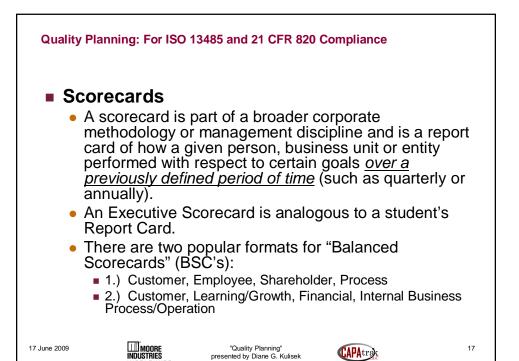
- Chosen factors that directly and indirectly influence the effectiveness of a product or process.
- A significant measure used on its own, or in combination with other key performance indicators, to monitor how well a business is achieving its quantifiable objectives.
- A proxy measure of the success of part of an organization, or a manager of that part. A type of indicator. The future of the unit or person depends on achieving a satisfactory figure.
- Also known as Key Success Indicators (KSI). Financial or non-financial metrics used to reflect the critical success factors of an organization.
- NOTE 1: All KPI's are also Metrics, but not all Metrics are KPI's.
- NOTE 2: Not all KPI Metrics are Quality Metrics.

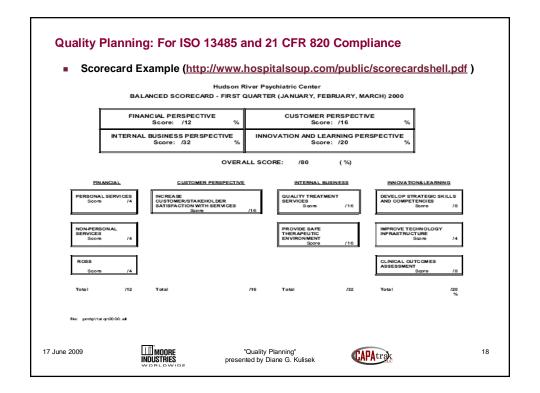
17 June 2009

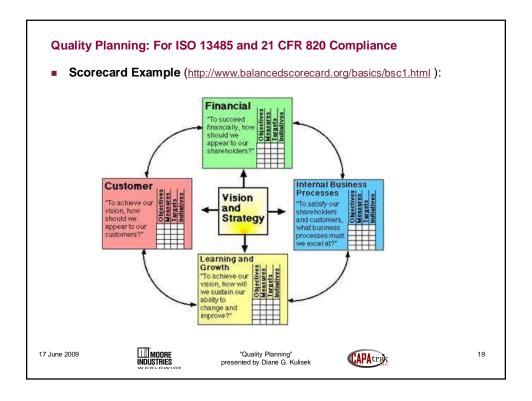


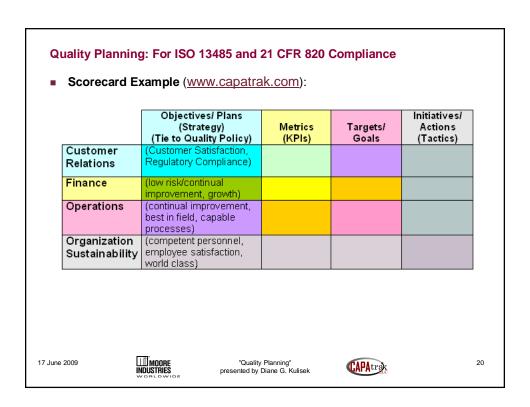
"Quality Planning" presented by Diane G. Kulisek

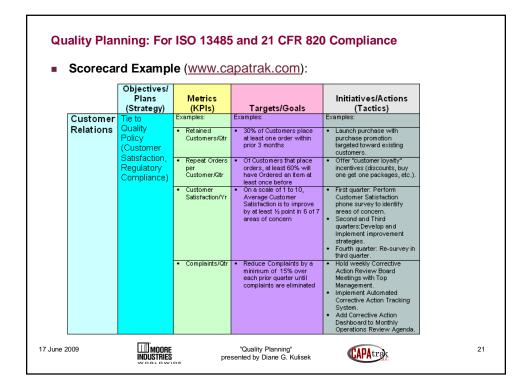


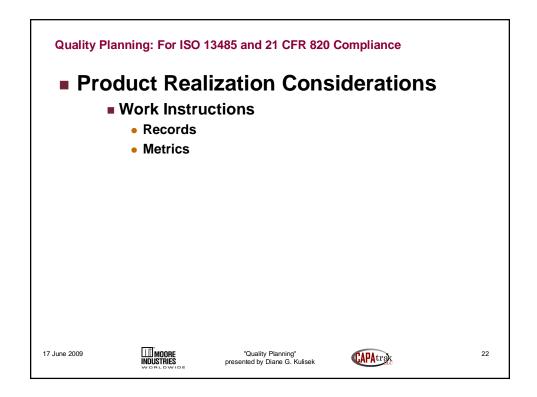












- Quality Planning References
- Quality Planning Tools
 - Quality Planning Procedure Template
 - Strategic Quality Plan Template

17 June 2009



"Quality Planning" presented by Diane G. Kulisek



23

Quality Planning: For ISO 13485 and 21 CFR 820 Compliance

Dashboards

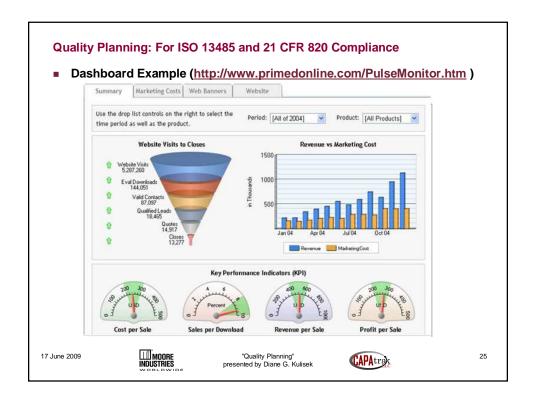
- A dashboard is a dynamic set of indicators about the state of a process, piece of equipment, or business metric <u>at any specific</u> <u>point in time.</u>
- A Quality Metrics Dashboard is analogous to the dashboard in a car or the cockpit in a plane but, instead of driving a car, the user is "driving" a process.

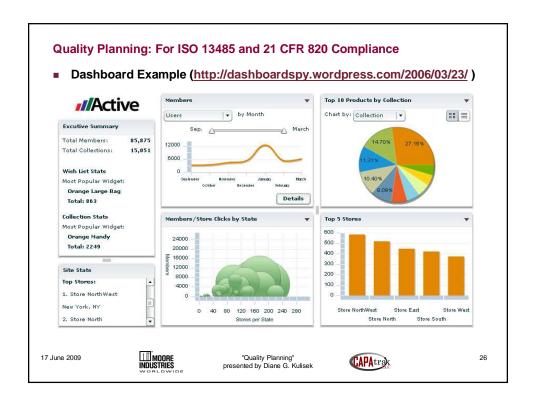
17 June 2009



"Quality Planning" presented by Diane G. Kulisek







Quality Metrics, Scorecards and Dashboards

- Dashboard Examples:
 - http://www.primedonline.com/PulseMonitor.htm
 - http://dashboardspy.wordpress.com/2006/03/23/
- Scorecard Models and Examples:
 - http://www.balancedscorecard.org/basics/bsc1.html
 - http://www.capatrak.com (use member access free stuff page)
 - http://www.primedonline.com/PulseMonitor.htm
 - http://www.hospitalsoup.com/public/scorecardshell. pdf

17 June 2009



"Quality Planning" presented by Diane G. Kulisek



27

Quality Metrics, Scorecards and Dashboards

- The following free templates will be provided to you via email upon request (send request to <u>dkulisek@capatrak.com</u>) and are or will also be available from the CAPAtrak Download pages at <u>www.capatrak.com</u>. These include:
 - Strategic Quality Plan Template
 - Operating Procedure and/or Work Instruction Template for Inclusion of Quality Metrics
 - Scorecard Template
 - Dashboard Template
- A .pdf version of the handouts for this presentation will also be available for download from the CAPAtrak download page.

17 June 2009



"Quality Planning" presented by Diane G. Kulisek



Quality Metrics, Scorecards and Dashboards

Thank you! May I answer your questions?

17 June 2009



"Quality Planning" presented by Diane G. Kulisek

