Premium

for

Quality

Wool

Quality Assurance & Quality Management

Produced for the CRC for Premium Quality Wool undergraduate program by; Dr. Peter Auer, The University of New South Wales.

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Why is Quality Important?

- improved technology
- natural fibre
- inadequately specified
- Premium

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- variation not specified
- variable availability
- specification as certification for trade



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What is Quality?

- product (or service) features which meet the needs of customers and thereby provide customer satisfaction
- delivering what the customer wants at the price and specification agreed
 - processors and consumers
- no surprises!
 - processors especially
- predictable degree of uniformity suited to the market
 - predictable variation



Total Quality Management

- serve the needs of customers better
- raise customer or buyer satisfaction
- all stages of production involved

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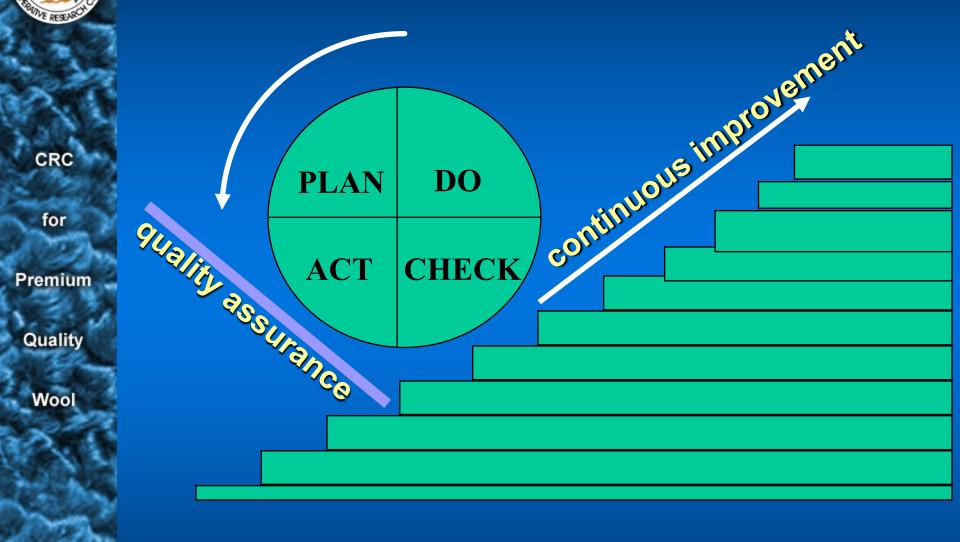
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- long-term perspective
 needs of the customer
- "holistic" approach to management

Continuous Improvement Cycle



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Peter Auer Source: IWS (1996)



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Quality Features

Product	Service
clip preparation	availability
accurate description	delivery on time
foreign matter	product description
packaging	quality system
low variability	trace back
	meet specifications

repeatability

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Benefits of Quality

- marketing
 - improved customer confidence
 - repeat business
 - better market access
- productivity
 - better products
 - improved efficiency
 - better morale
 - increased capacity

- costs
 - less waste
 - less claims
- there are also costs to the producer



Quality Systems

- Common Features
 - credibility (assurance)
 - continuous improvement
 - wide adoption (volume)
 - awareness
 - holistic approach
 - eg. ISO 9000 – may not be necessary

- Components
 - customer focus
 - Quality Policy
 - education & training
 - design & documentation
 - auditing
 - internal
 - external

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ISO 9000

 International Standards Organisation (ISO), Geneva, Switzerland

 also AS3900 series

MINIMUM specified requirements

5 production models eg.

- AS/NZS ISO 9001
 - Model for QA in design, development, production, installation and servicing
- AS/NZS ISO 9002
 - Model for QA in production, installation and servicing

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Quality in the Wool Industry

- 1996 figures
- ISO

0

- Clipcare
- FS Falkiner & Sons
- Goddard Wool
 Marketing
- Jemalong Wool Pty. Ltd.
- Other
 - about 10 other grower / broker groups

- AWEX
 - Australian Quality Mark

• AWTA - ISO 9002

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Elders ClipCare

- Staff training to TAFE certificate level
- Briefing the grower on the operational requirements of ClipCare
- Pre shearing inspection of shed and surrounds
- Grower to prepare shed and sheep to required standard
- Sheep have to be crutched or rung within three months of shearing



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Elders ClipCare

 Assessor attends the first day of shearing to brief the team, inspect the sheep and operation

Signed declarations

ClipCare Accreditation Declaration Form

Third party auditors

auditor may return unannounced at any time

 Grab sample is then inspected on the show floor

> Peter Auer Rodda, M. (1998)



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Elders ClipCare

- Impact of QA programs
 - raise awareness of production and classing issues
 - improve clip preparation standards
 - create loyalty to broker or other groups
 - improved the standards of packs used

however,

- no individual program has been able to achieve critical mass
- price premiums difficult to quantify

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AWEX Objectives

 Maintain, administer, conduct and facilitate efficient, innovative and informed wool selling systems.

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- Establish, monitor and administer the rules of wool selling of the Australian Wool Exchange.
- Establish and maintain facilities to gather and disseminate pre and post sale market information.
- Contribute to and maintain recognised <u>quality</u> <u>assurance standards</u> for wool sold in Australia.

Peter Auer Spencer, L. (1998)



AWEX & Quality

- Obstacles
 - Industry culture change
 - Sector interests
 - Enforceability
 - Who pays?
 - Who gets the benefits?
 - Can the industry afford quality?

- Solutions
 - Building blocks
 - Codes of Practice
 - Registration
 Schemes
 - Quality Systems
 - Minimum
 Standards
 - Greasy Wool
 Quality Mark

Peter Auer Spencer, L. (1998)

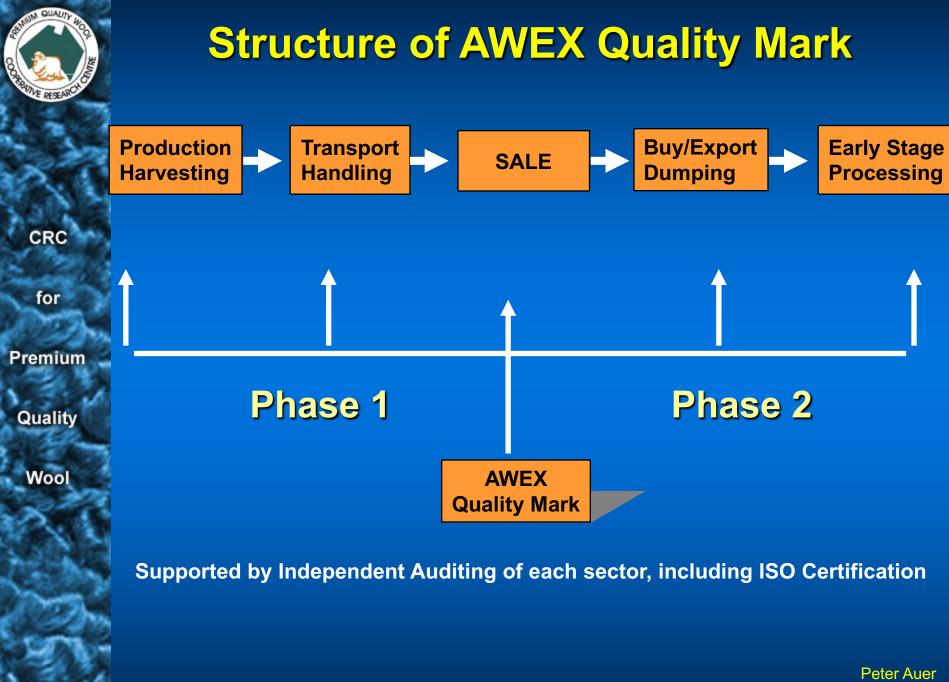
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Source: Spencer, L. (1998)



Producer Control Points

Working Environment

- Shearing Shed
- Sheep Movement Areas
- Wool Preparation Area

Chemicals On-Farm

- Obtaining and Storing Farm Chemicals
- Safe and Responsible Chemical Use

Stain Management

- Sheep Free From Urine and Dung Stain
- Inspection of Sheep Prior to Shearing

- Contamination
 - Dark or Pigmented Fibre (Genetic)
 - Non-wool Articles
 - Branding and Raddling
- Wool Preparation
 - Preparation and Classing
 - Removal of Fleeces
- Baling and Storage
 - Baling of Wool
 - Bale Identification and Traceability
 - Handling and Storage
- Inspection and Transport
 - Final Inspection
 - Transportation

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Producer - Management Points

- Management Responsibility
 - decide to adopt Quality Mark
- Occupational Health and Safety
- Animal Welfare
- Staff
 - work agreements and Duty Sheets
 - staffing levels
 - training
- Records and Documentation
- Audits
 - corrective and preventive action
- Wool Specification

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Sale Agent - Control Points

- Delivery Requirements
- Receival of Wool into Store
- Bale Handling Equipment and Machinery
- In-store Handling, Delivery and Storage
- Product Identification and Traceability
- Wool Specification and Measurement
- Preparation for Sale
- Sale

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Sale Agent - Management Points

Management Responsibility

- Working Conditions
- Training
- Occupational Health and Safety
- Inspection, Measuring and Sampling Equipment
- Records and Documentation
- Audits, Corrective and Preventive Action

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Benefits & Costs of Quality

BENEFITS

- Woolgrower
 - Product differentiation
- Broker/Sale Agent
 - Preferred supplier
- Wool buyer/Exporter
 - Risk management
- Wool dump
 - Process efficiency
- Early Stage processor
 - Processing prediction
- Wool Industry
 - Industry survival

COSTS

- Compliance
- Auditing
- ISO certification
- Registration
- Training

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