aegic

Australian Export Grains Innovation Centre

Online Learning Program for Flour Mills

Mathew Rees

Department of Primary Industries and Regional Development
GOVERNMENT OF WESTERN AUSTRALIA

GRAINS AUSTRALIA

AEGIC is an initiative of the Western Australian State Government and Grains Australia

Example lesson – Colour sorters video

AEGIC eLearning course

- 30 lessons
- Video (up to 10 minutes) + assessment questions
- Final assessment
- Certificate

aegic
Australian Export Grains Innovation Centre

AEGIC eLearning course

- Foundation course ONLY
- Aim - provide an introduction to the milling process for all mill employees (eg forklift drivers, accountants, etc)

aegic
Australian Export Grains Innovation Centre

Background

- Australia – Indonesia Free Trade Agreement
- IA-CEPA-Katalis

IA-CEPA ECP
KATALIS
Indonesia-Australia Growing Together

aegic
Australian Export Grains Innovation Centre

Progress so far…

- Wheat cleaning course
- Food Safety
- Personal Hygiene
- Katalis - Entire wheat milling process
- Available early 2024

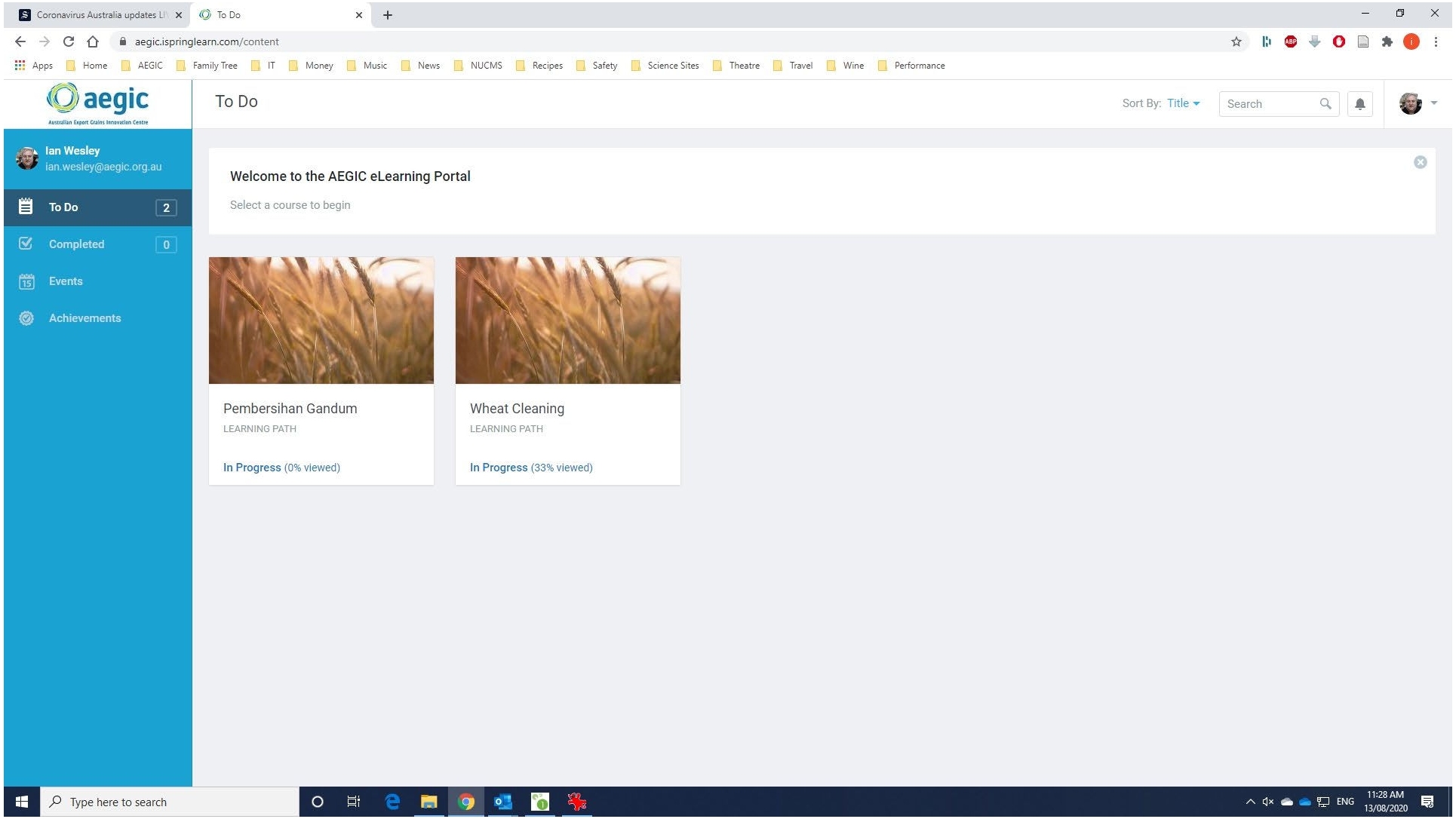
aegic
Australian Export Grains Innovation Centre

Course Introduction

- Internet-based learning management platform
- PC web browser or mobile
- Dual-language

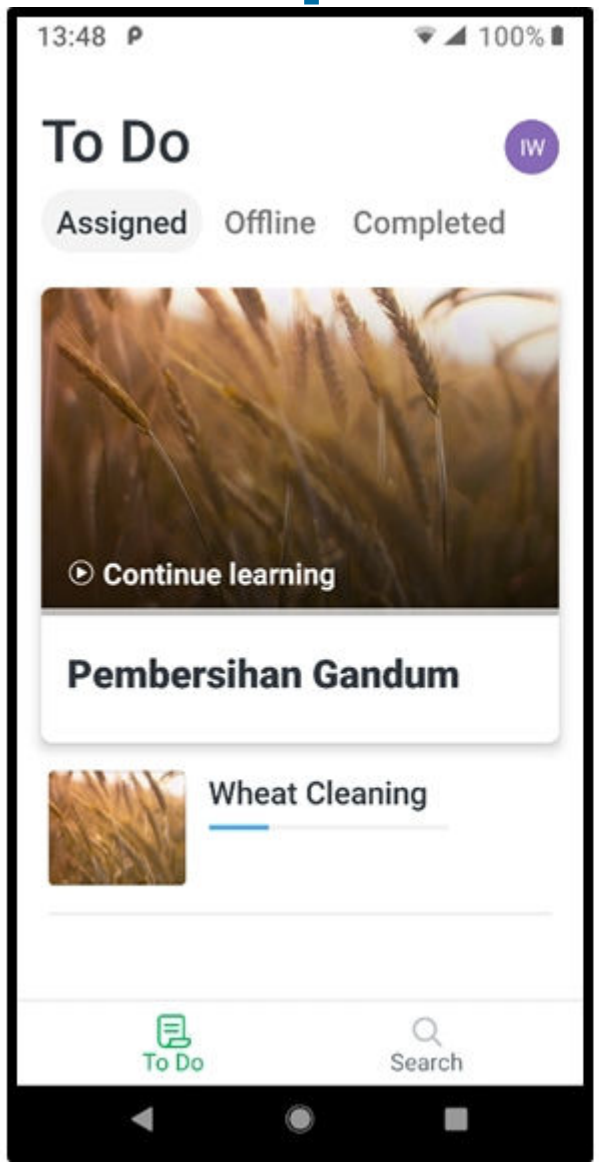
aegic
Australian Export Grains Innovation Centre

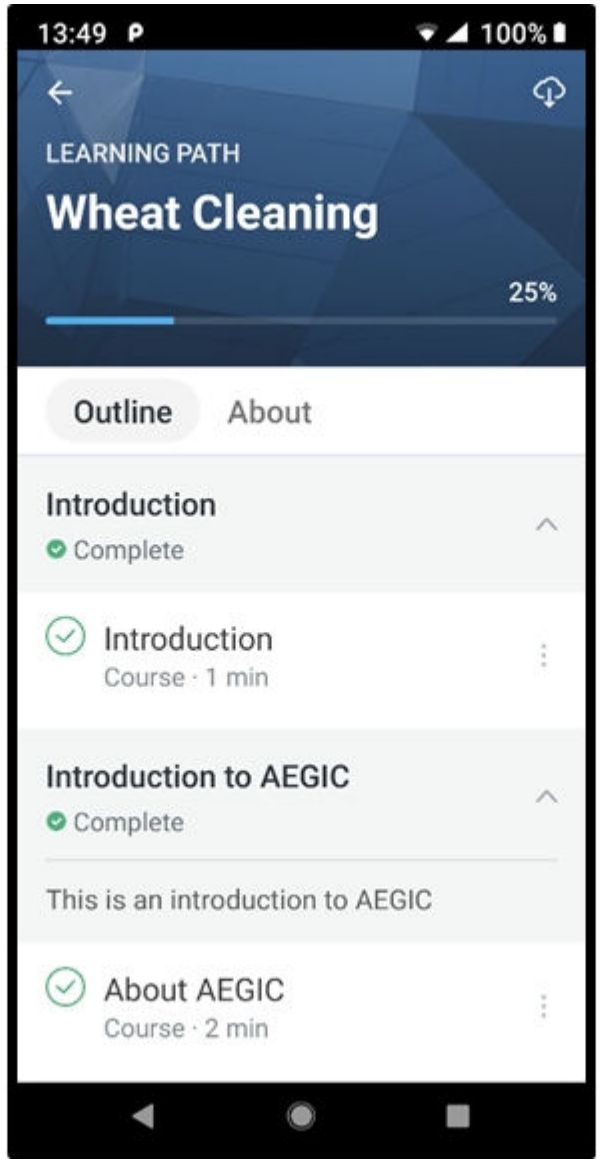
Example Web Interface

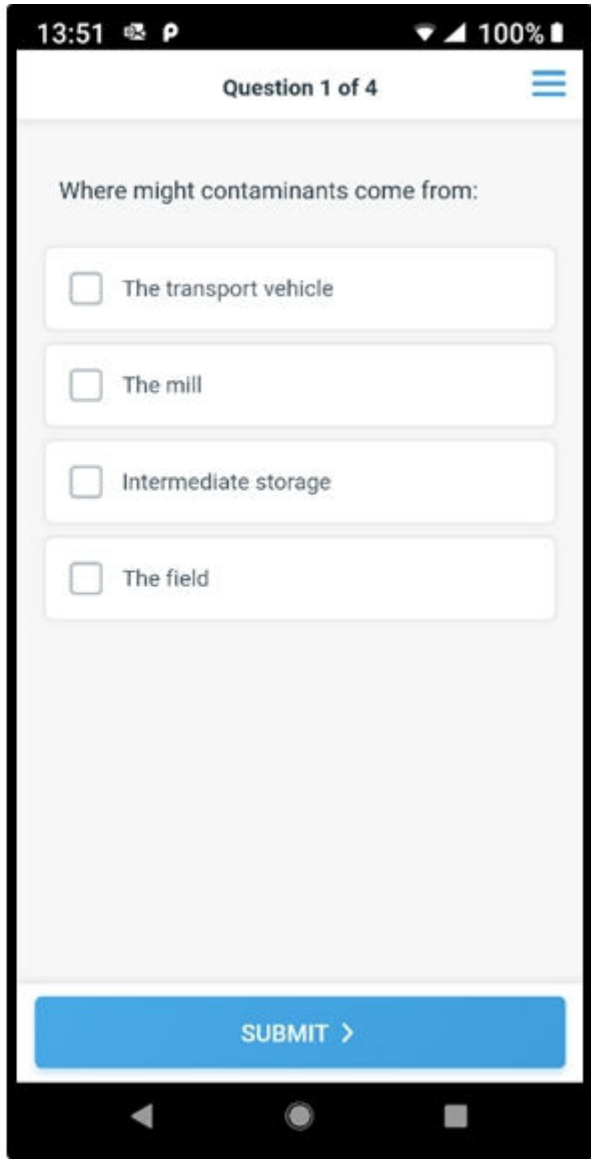


aegic
Australian Export Grains Innovation Centre

Example Phone Interface







aegic
Australian Export Grains Innovation Centre

Course Content

New Material

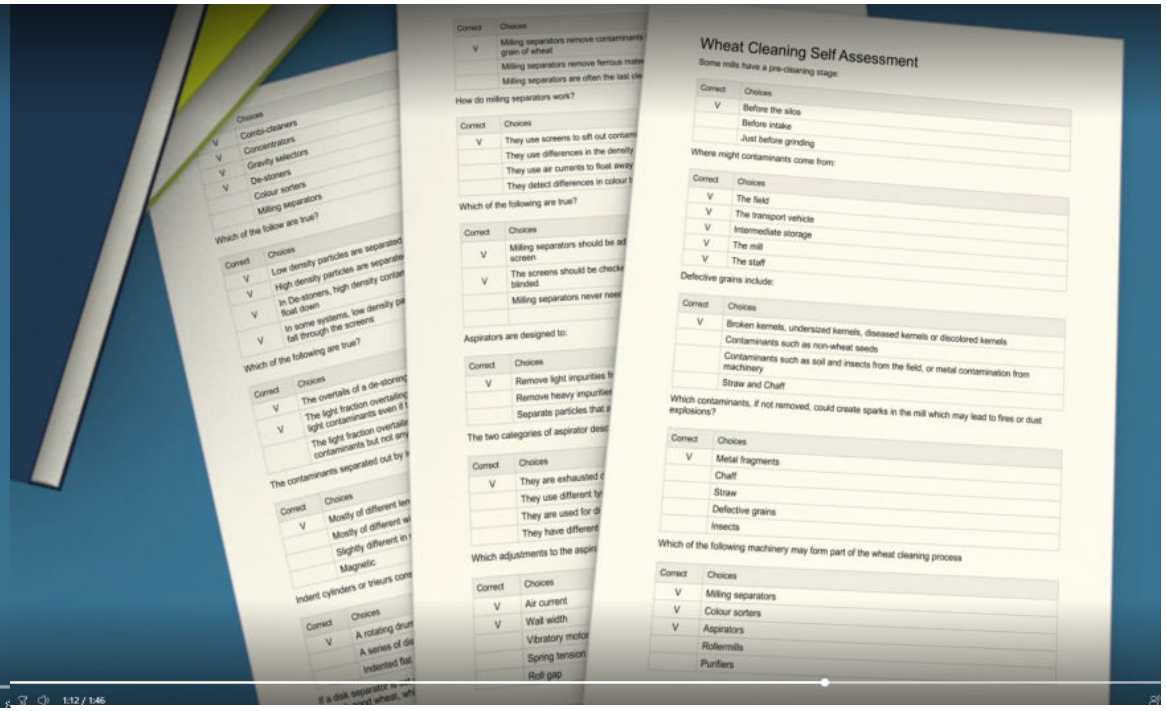
- Introduction
- Grain foods supply chain
- Mill site overview
- Wheat Assessment, Intake & storage
- Wheat testing
- Wheat blending and tempering
- Rollermills
- Plansifters
- Break system
- Purification system
- Reduction system
- Products blending and storage
- Flour testing
- Rheology
- Mill performance
- Ancillaries 1 - air
- Ancillaries 2 - Conveying, weighing & dosing
- Ancillaries 3 - Power, automation & measurement
- Mill design

Existing Material

- Food Safety
- Contaminants
- Milling Separators
- Aspirators
- Density (de-stoners, gravity selectors, etc)
- Indent Cylinders
- Scourers
- Magnets
- Colour Sorters

Course Content

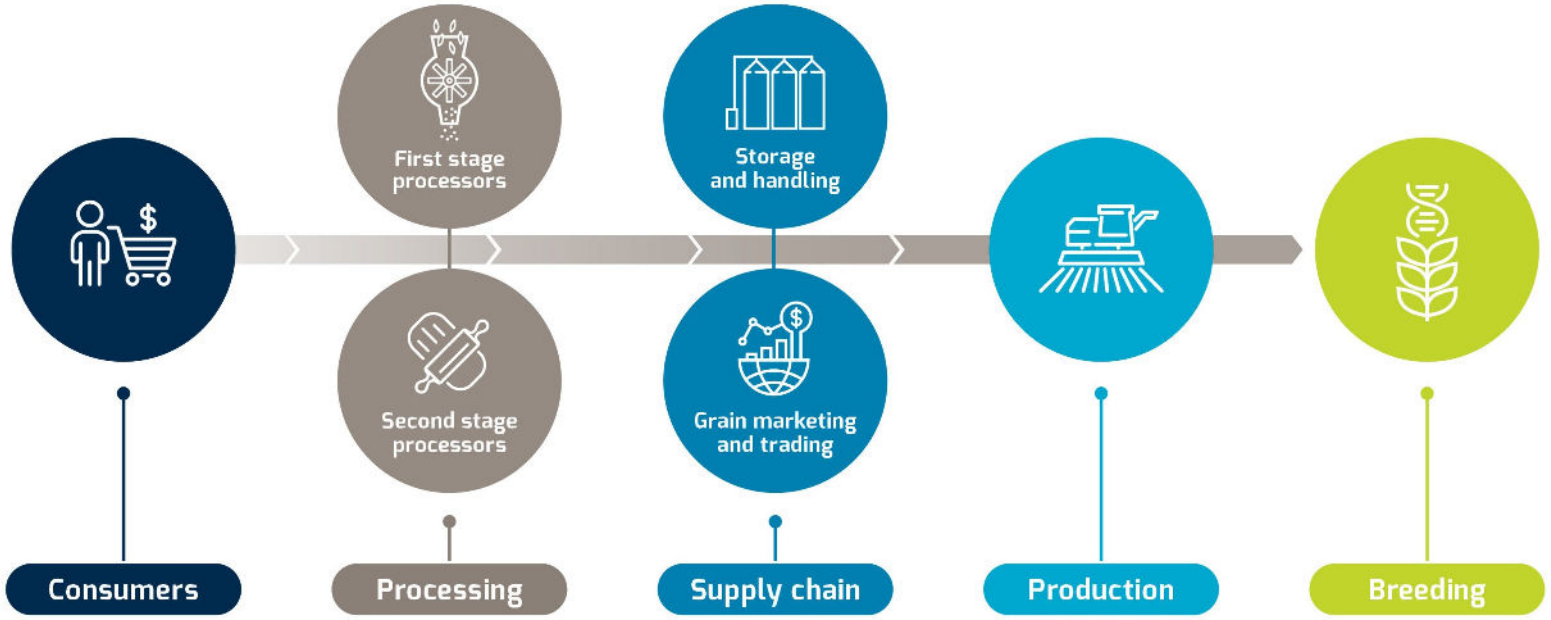
Introduction



aegic
Australian Export Grains Innovation Centre

Course Content

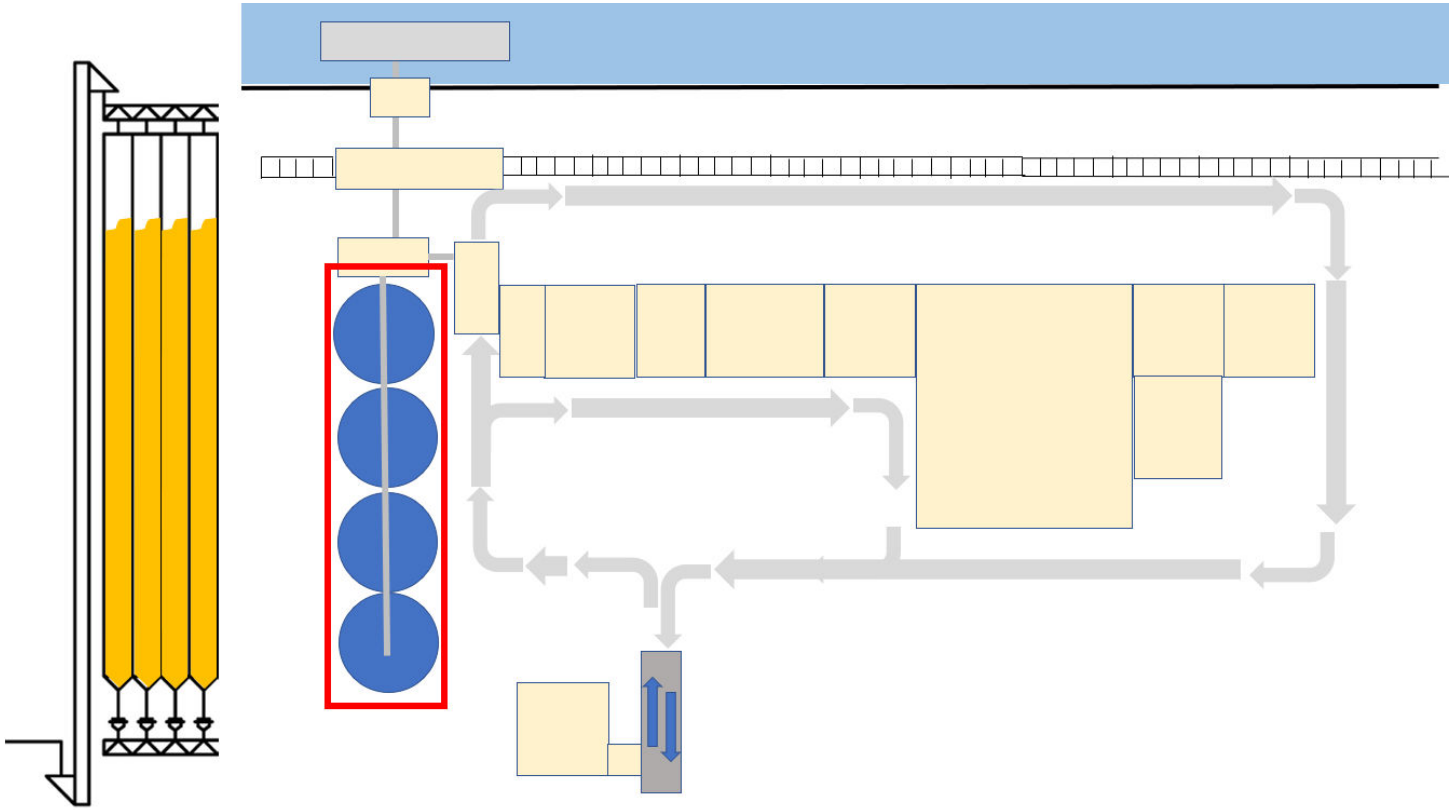
Grain Foods Value Chain



aegic
Australian Export Grains Innovation Centre

Course Content

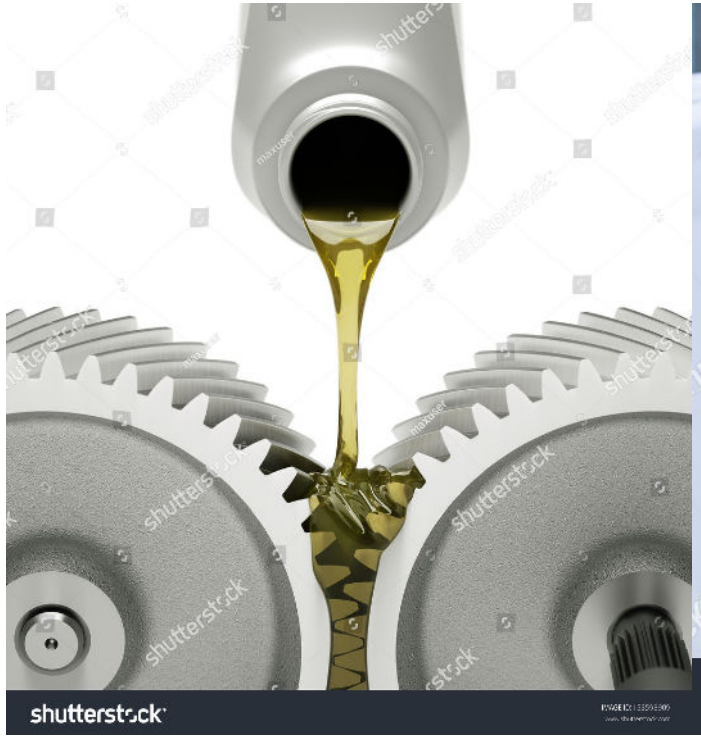
Mill Site Overview



aegic
Australian Export Grains Innovation Centre

Course Content

Basics of Mill Machinery



aegic
Australian Export Grains Innovation Centre

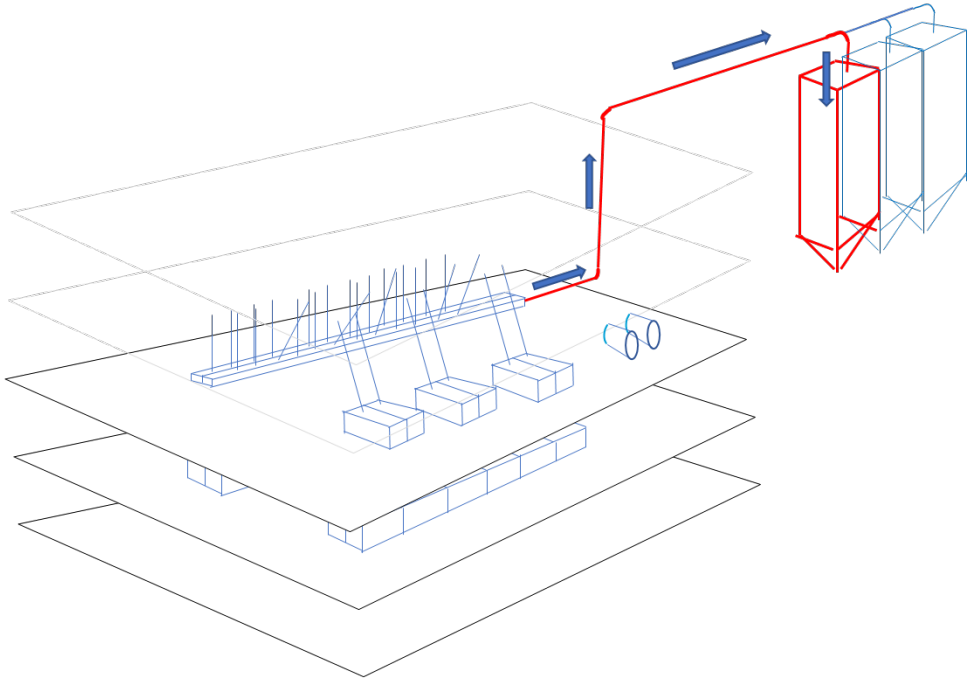
Course Content

Mechanical conveying, weighing and dosing

aegic
Australian Export Grains Innovation Centre

Course Content

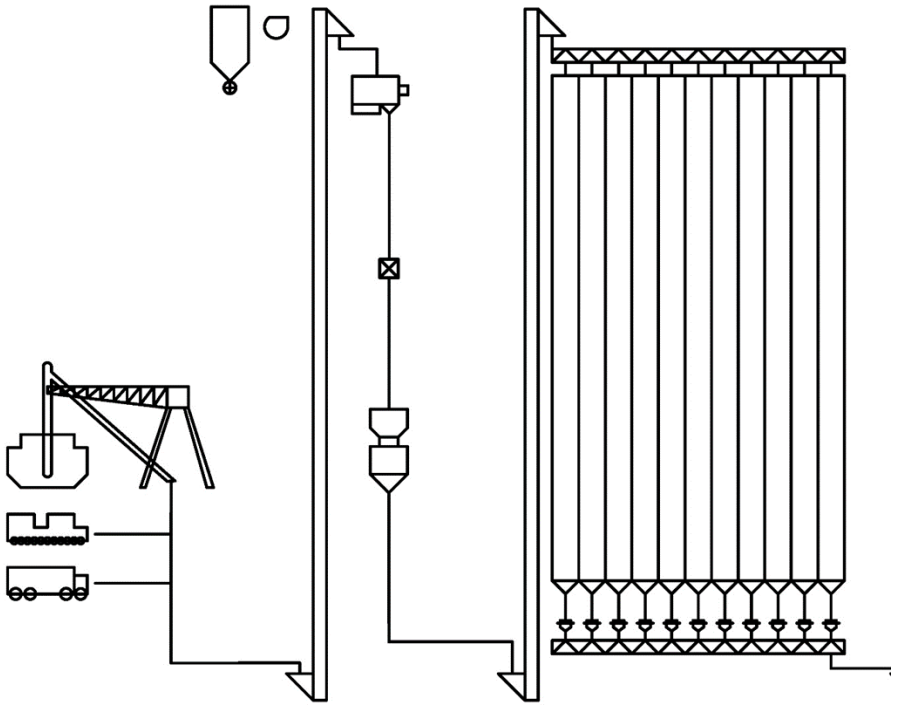
Pneumatic systems



aegic
Australian Export Grains Innovation Centre

Course Content

Wheat receival and storage



aegic
Australian Export Grains Innovation Centre

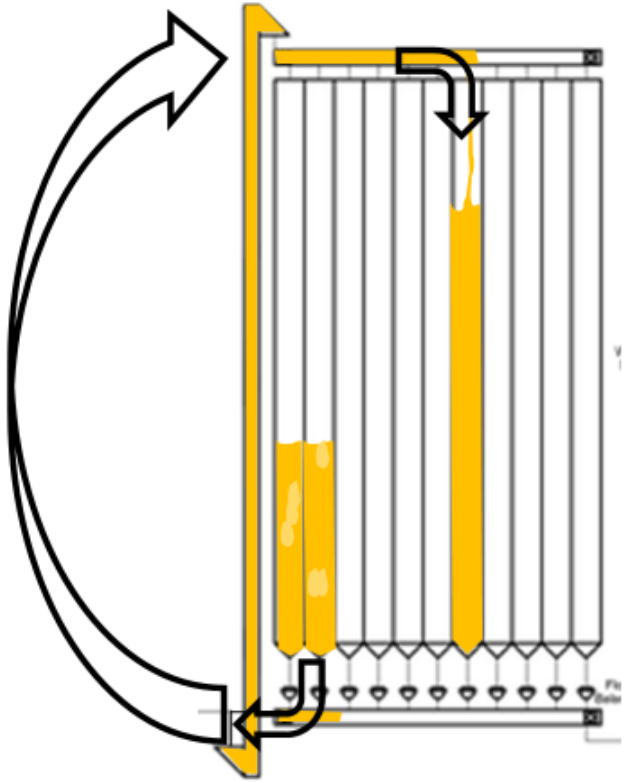
Course Content

Wheat cleaning

aegic
Australian Export Grains Innovation Centre

Course Content

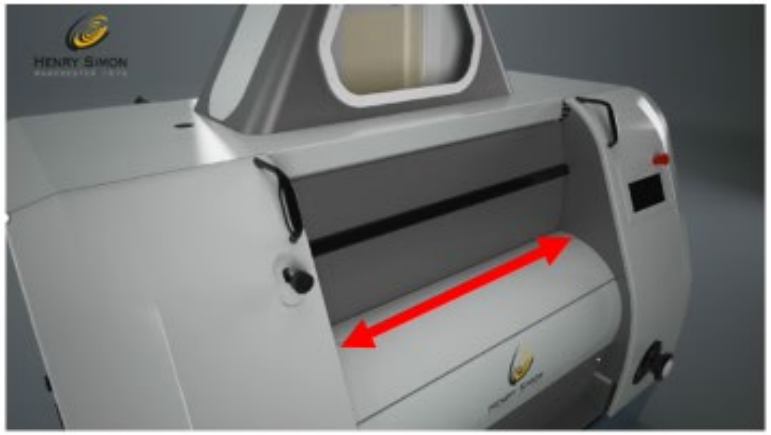
Wheat blending and conditioning

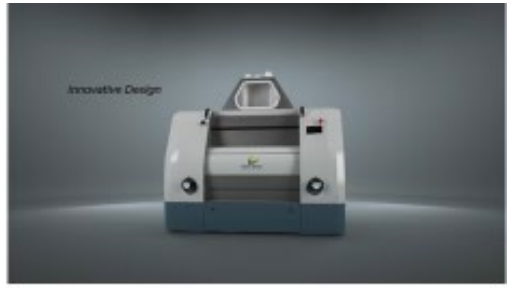


aegic
Australian Export Grains Innovation Centre

Course Content

Rollermills





aegic
Australian Export Grains Innovation Centre

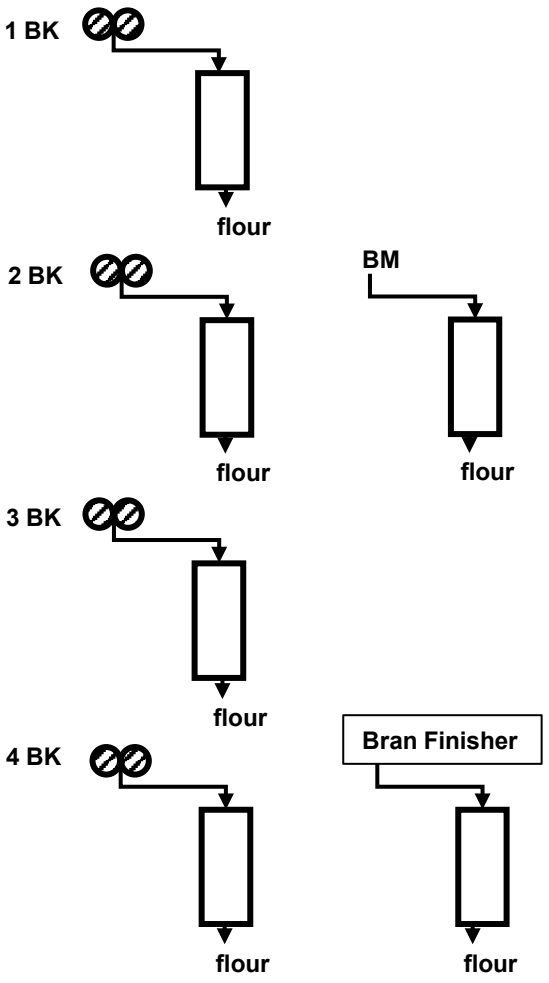
Course Content

Plansifters

aegic
Australian Export Grains Innovation Centre

Course Content

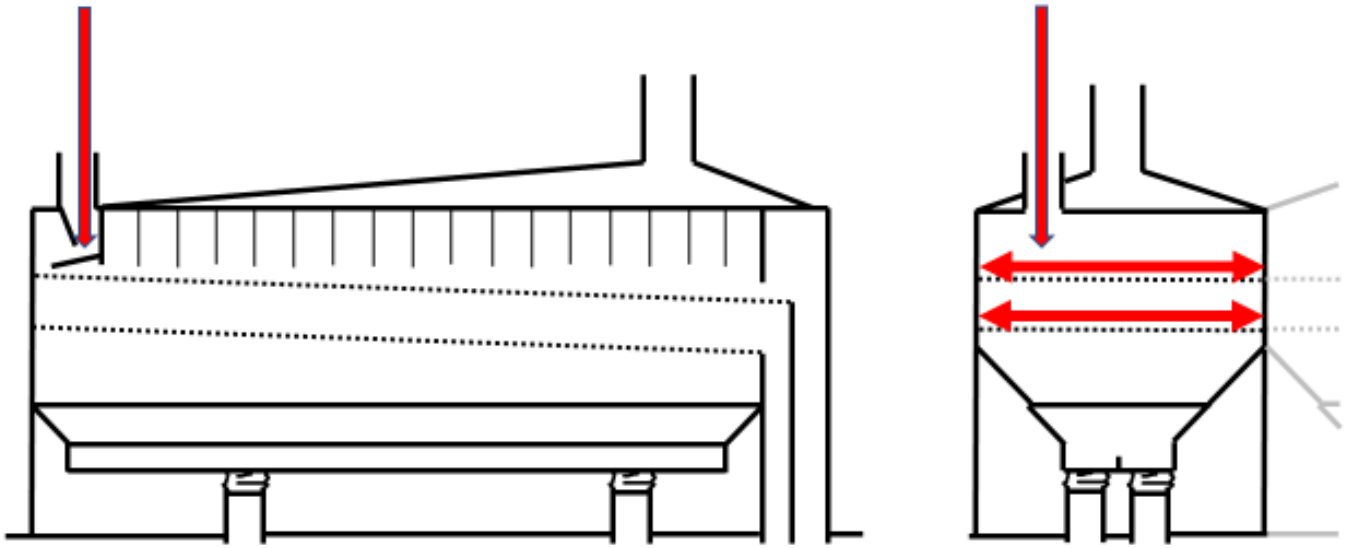
Break System



aegic
Australian Export Grains Innovation Centre

Course Content

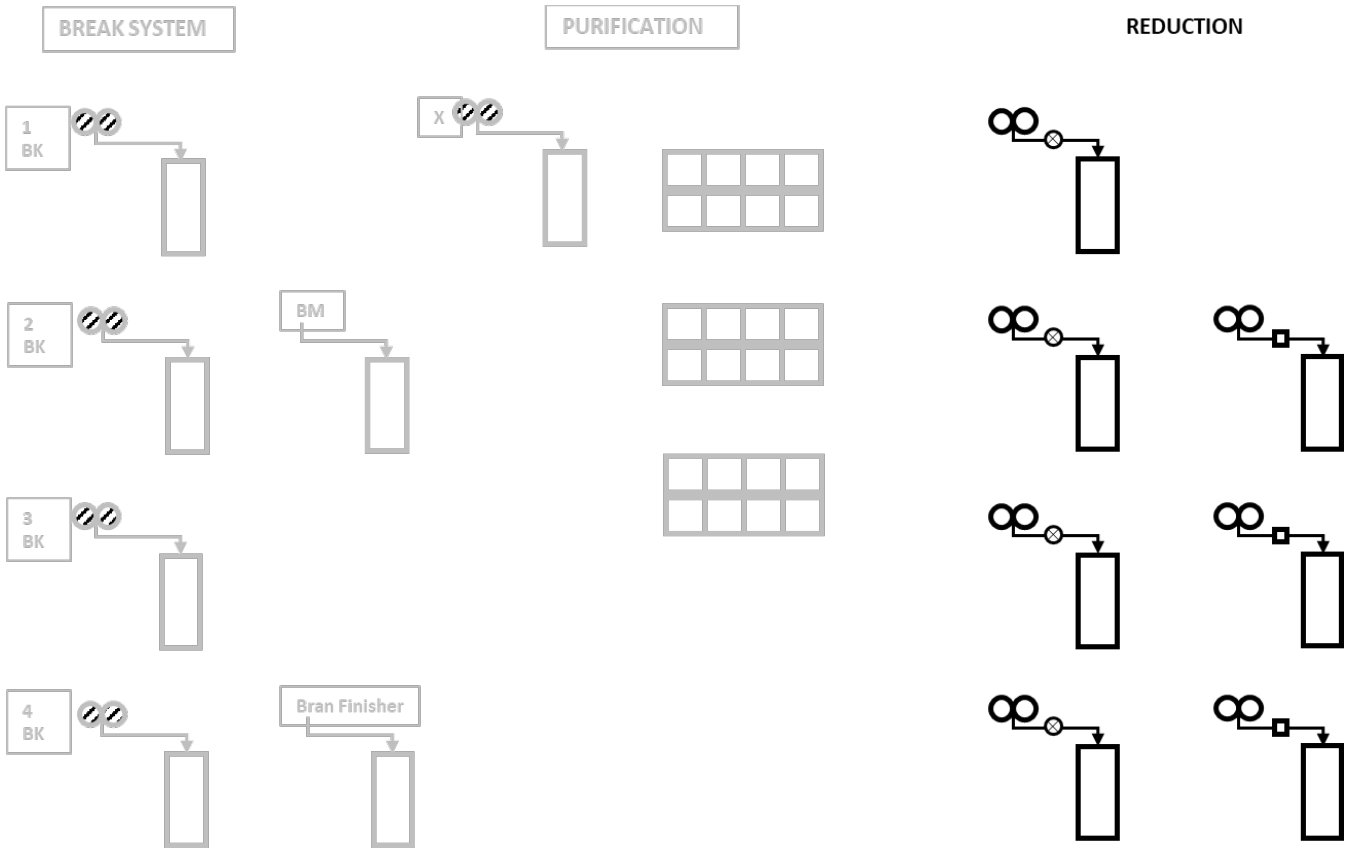
Purification System



aegic
ian Export Grains Innovation Centre

Course Content

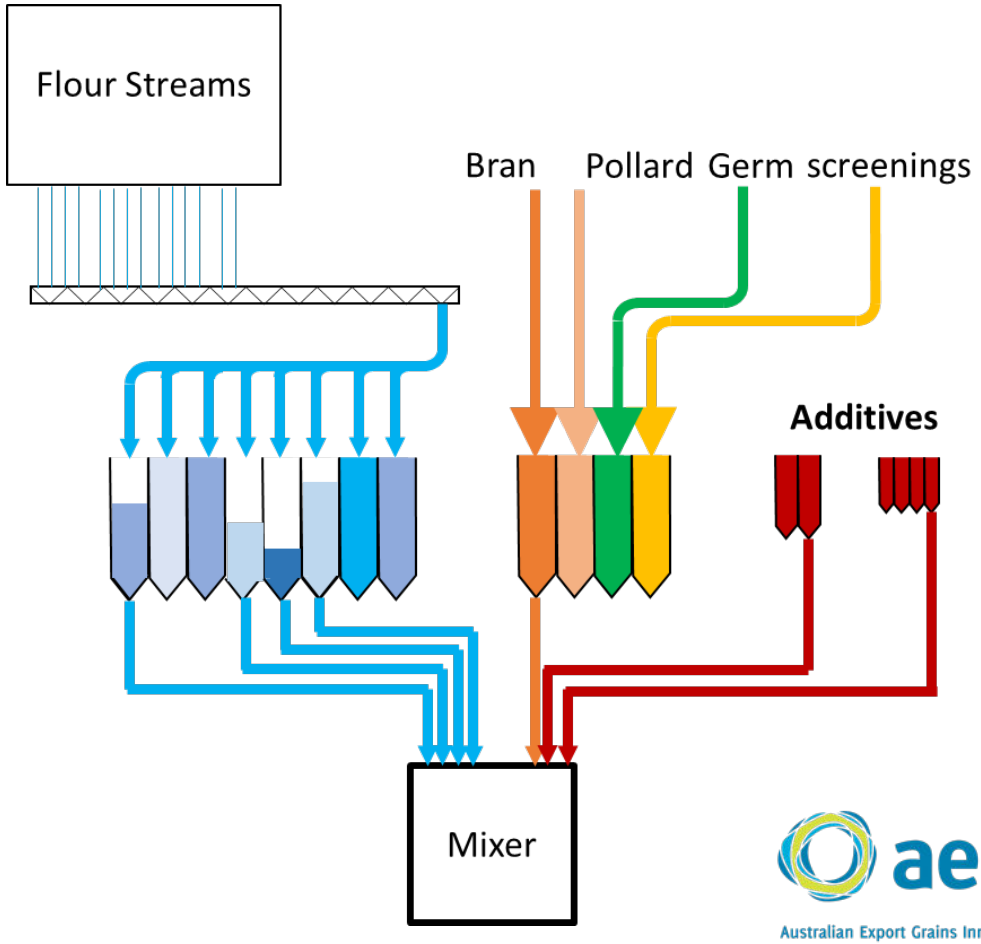
Reduction System



aegic
Australian Export Grains Innovation Centre

Course Content

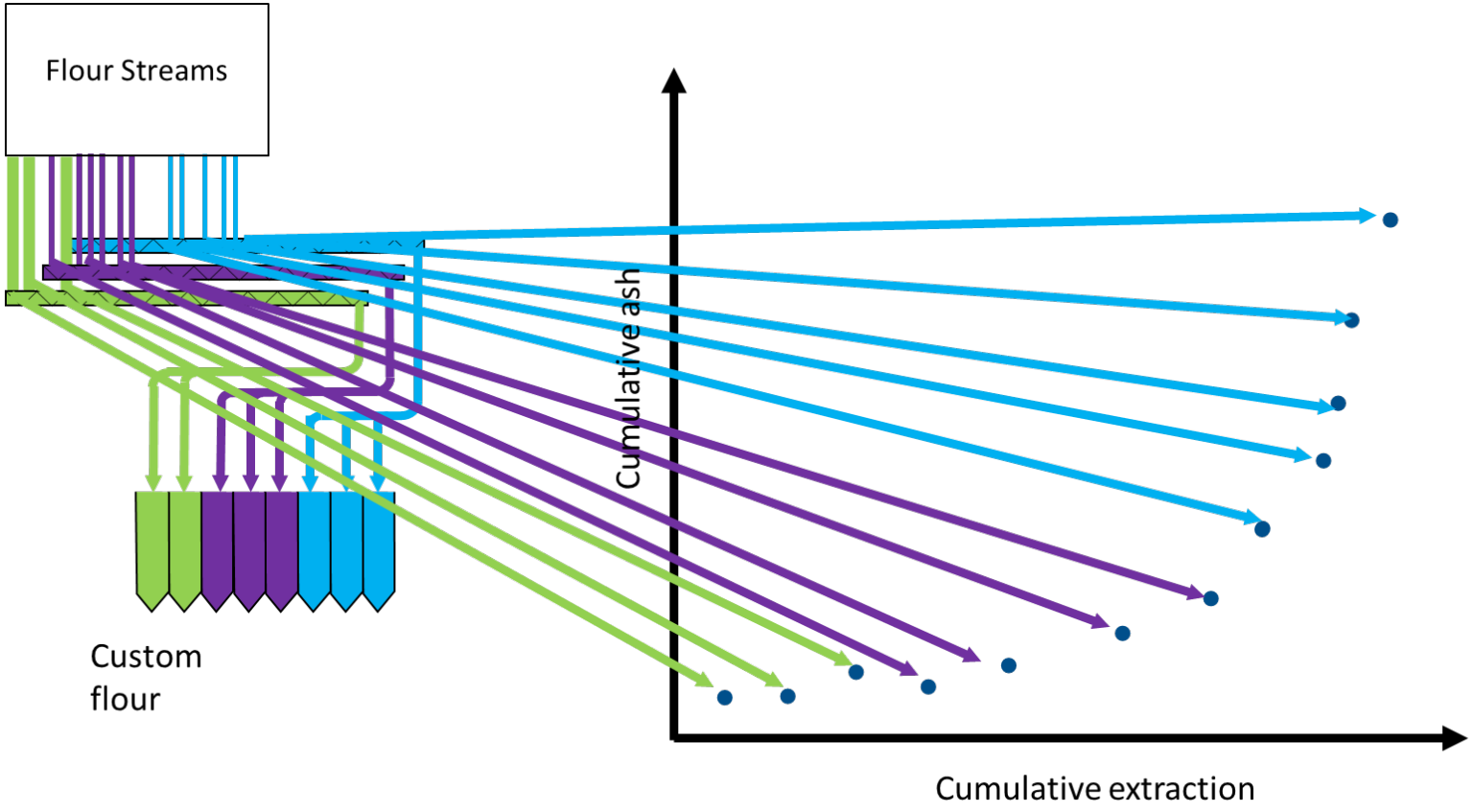
Products blending and storage



aegic
Australian Export Grains Innovation Centre

Course Content

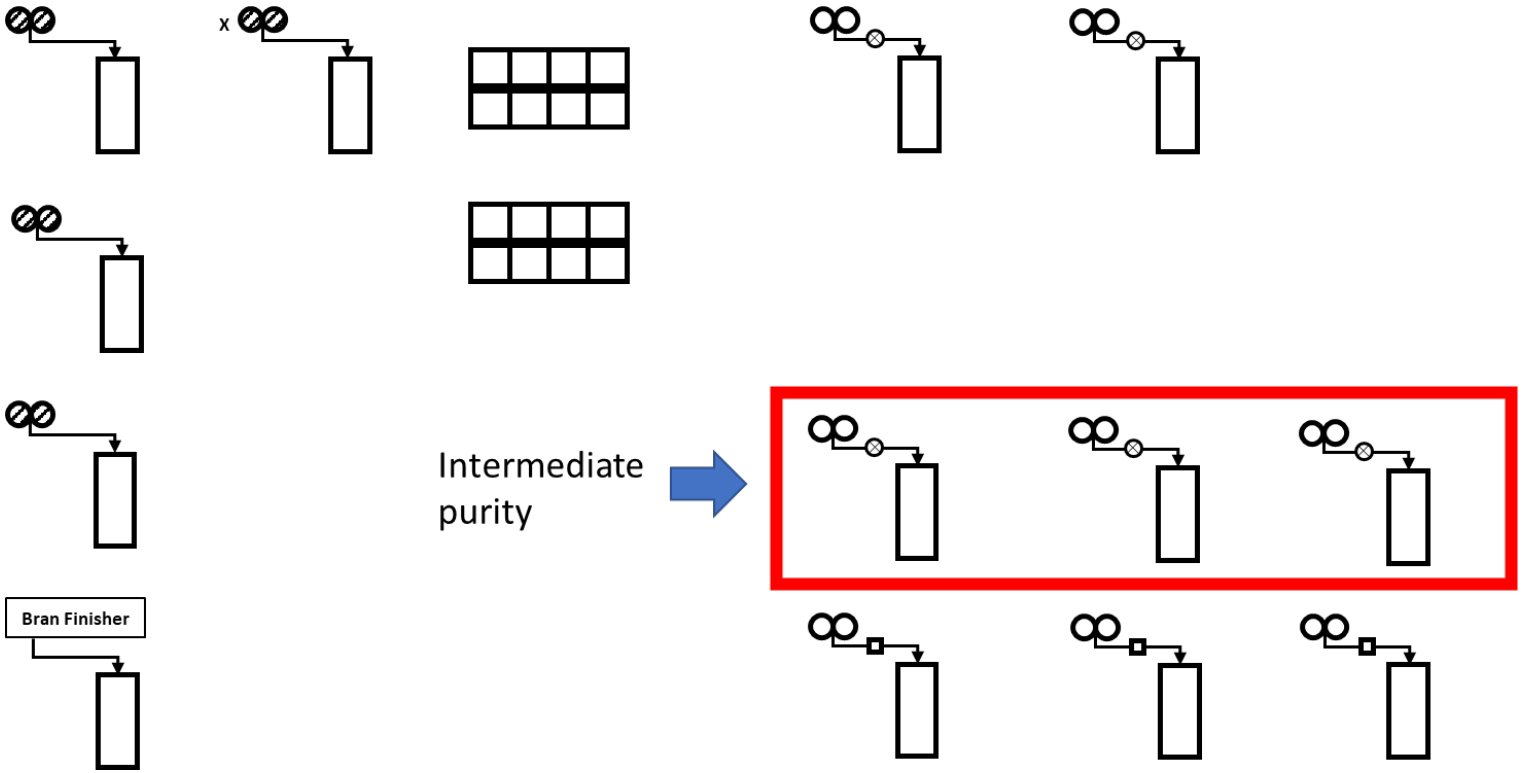
Mill Performance



aegic
Australian Export Grains Innovation Centre

Course Content

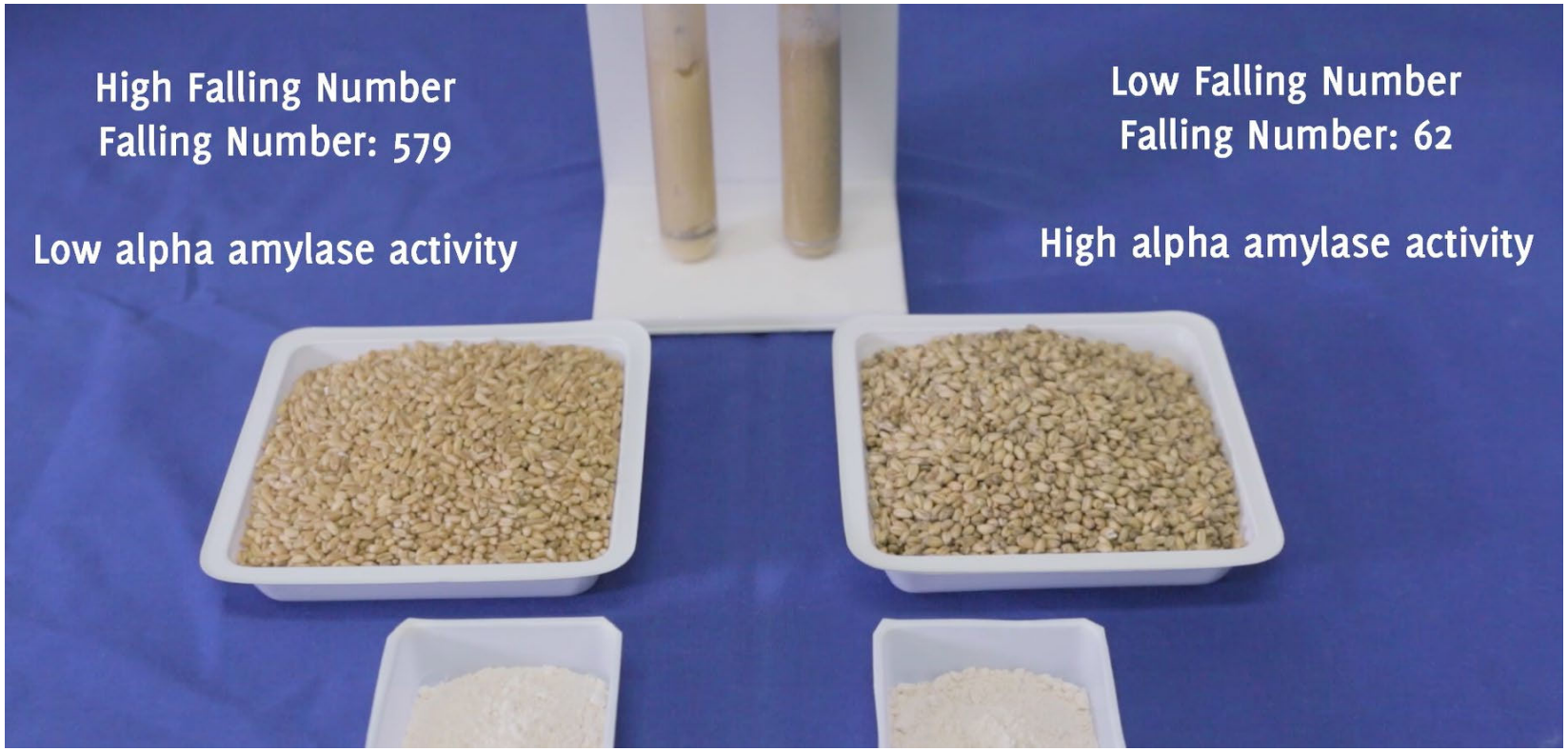
Mill Designs



aegic
Australian Export Grains Innovation Centre

Course Content

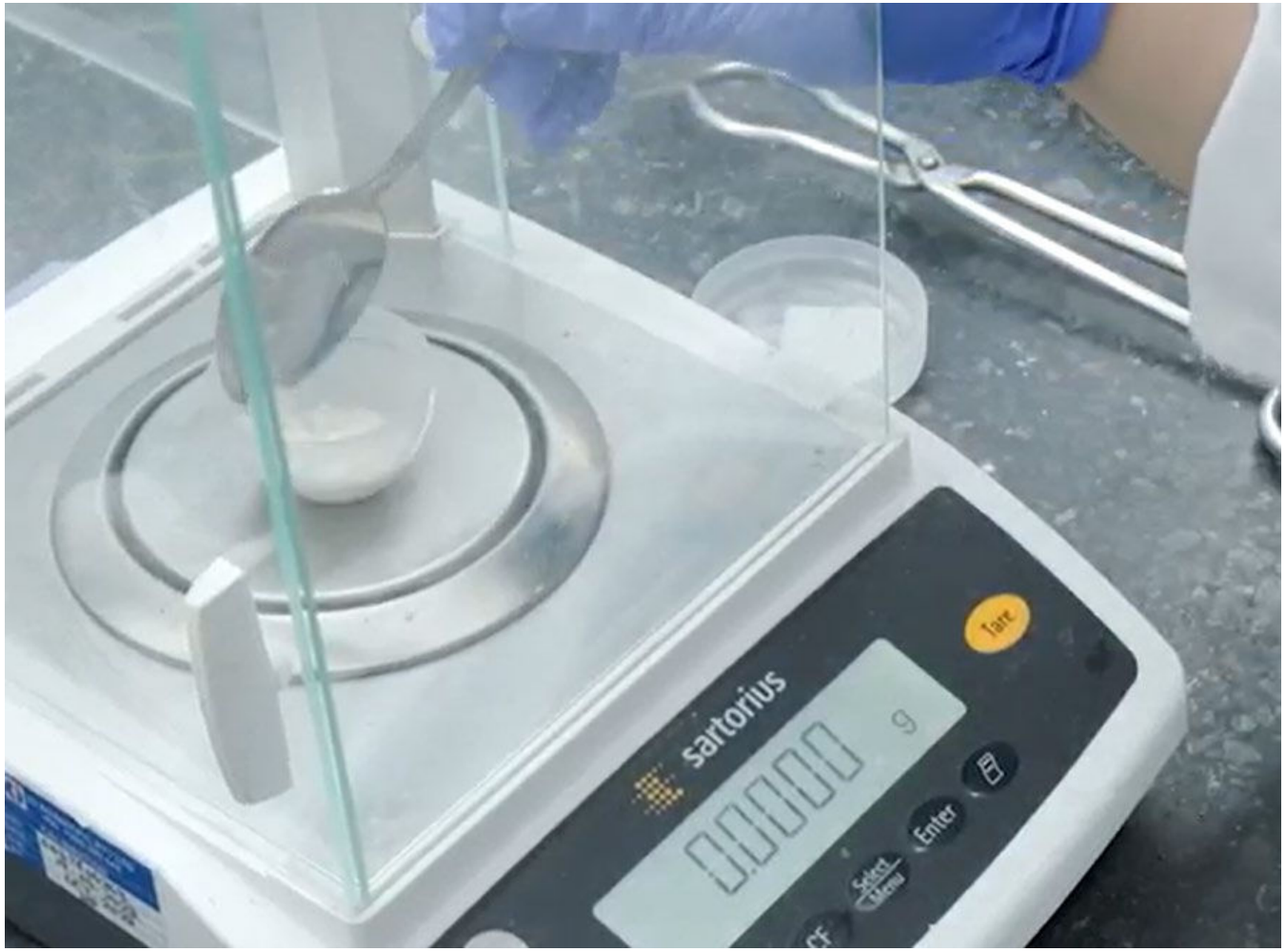
Wheat quality



aegic
Australian Export Grains Innovation Centre

Course Content

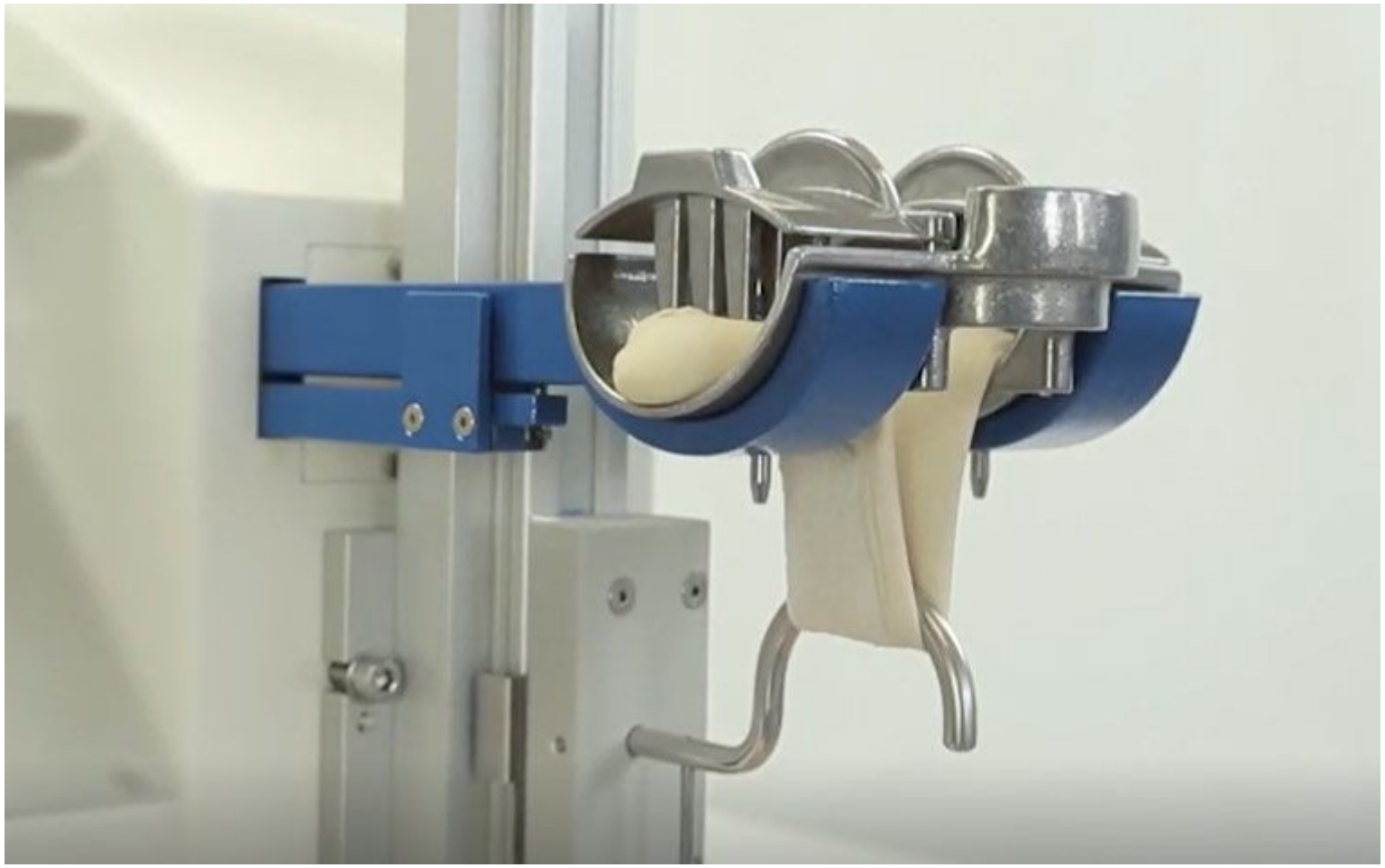
Flour Testing



aegic
Australian Export Grains Innovation Centre

Course Content

Dough Rheology



aegic
Australian Export Grains Innovation Centre

Thank you!

AGRI LABOUR australia

Aybakar

Brabender®

BÜHLER

CI SCIENTIFIC "WHERE MEASUREMENT IS PARAMOUNT TO SUCCESS"

FOSS

GrainCorp

Graintec Scientific

HENRY SIMON MANCHESTER 1878

LAUCKE GOOD GRAINS • GREAT FLOUR

PACKWEIGH INNOVATIVE PACKAGING SOLUTIONS

tpg TOUT POUR LE GRAIN

CIMBRIA

aegic Australian Export Grains Innovation Centre

aegic

Australian Export Grains Innovation Centre

Department of Primary Industries and Regional Development

GOVERNMENT OF WESTERN AUSTRALIA

GRAINS AUSTRALIA

IA-CEPA ECP KATALIS

Indonesia-Australia Growing Together

AEGIC is an initiative of the Western Australian State Government and Grains Australia

aegic.org.au