

*Crop Produce Analysts:
Grain Grader*

Curriculum Code 684301001

Knowledge Assessment



Knowledge Modules				
684301001-KM-01	The collection and grading of representative grain and oilseed samples		NQF 3	12 credits
	Notional Hour Breakdown		Total	120 hours
	Facilitation time	Module 1		16 hours
		Module 2		16 hours
		Module 3		16 hours
		Maize		8 hours
		Wheat		16 hours
		Commodity 1		16 hours
		Commodity 2		16 hours
	Knowledge Assessment			16 hours
KM-01-KT01	The Grains and Oilseeds Industries			
	KT0101	Grains and oilseeds quality properties		
	KT0102	Grains and oilseeds grading principles and regulatory framework		
KM-01-KT02	Grains and oilseeds sampling			
	KT0201	Concept and principles of representative grains and oilseeds sampling		
	KT202	Sampling methods and procedures		
KM-01-KT03	Grains and oilseeds grading			
	KT0301	Organising and preparing the workplace		
	KT0302	Grading methods and procedures		

KNOWLEDGE ASSESSMENT

The following assessment activities must be completed by the learner during the time allocated during class facilitation time. The facilitator may request learners to complete each grain type on completion of that specific grading standard or on completion of all the theoretical components.

The learner must achieve a 50% pass rate before he/she can commence with the practical assessment activities.

Module 1: The Grain and Oilseeds Industry

Question 1 [30]

Give the composition and nutritional values for the following grains, oilseeds and leguminous seeds:

1. Maize (5)

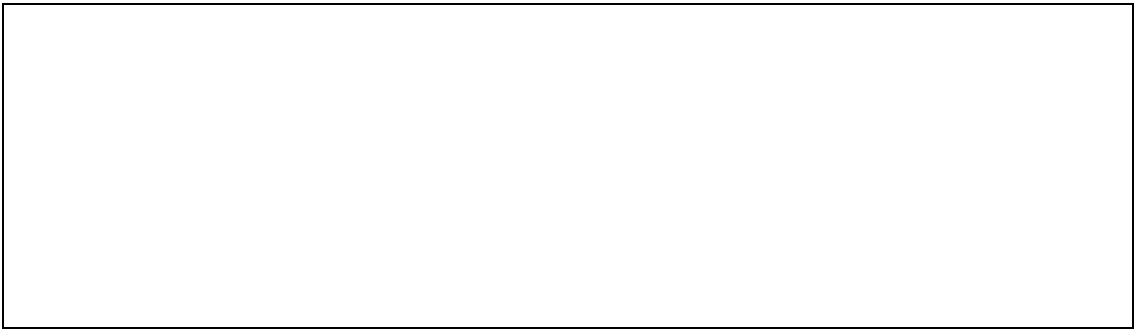
2. Sorghum (5)

3. Bread Wheat (5)

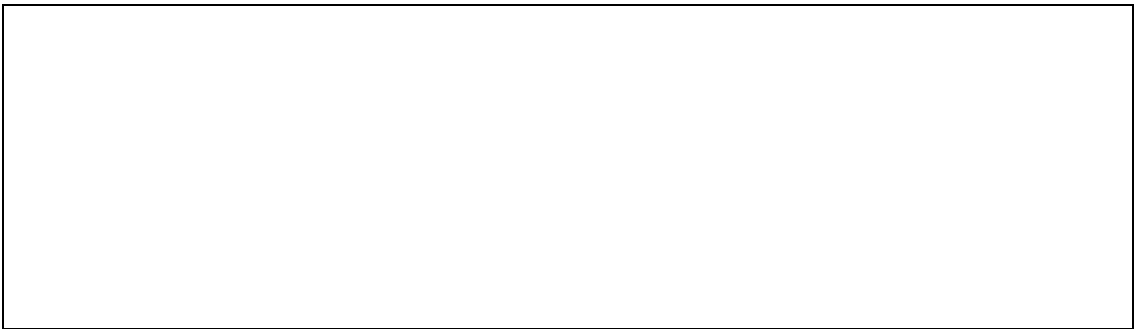
4. Soya beans (5)



5. Sunflower seeds (5)



6. Dry beans (5)



Total achieved ()

Question 2 [25]

Describe in detail the uses for the following grains, oilseeds and leguminous seeds:

- 1. Maize [5]

- 2. Wheat [5]

Total achieved ()

Question 3 [12]

Describe the industry stakeholders / participants' functions and options in the grain trading industry.

- 1. Producers / farmers [3]

- 2. Grain traders [2]

- 3. Storage agents [5]

4. Processors, manufacturers and buyers [2]

Total achieved ()

Question 4 [4]

Based on grading principles a grain, oilseed and dry bean representative sample must be sensorially assessed or chemically analysed to determine if it contains certain factors. Name these factors.

Total achieved ()

Question 5 [7]

Based on standards incorporated in the regulations grains, oilseeds and leguminous seeds must be free from certain substances or allowed a presence of the substance based on a predetermined tolerance. List these attributes and the applicable tolerance.

Total achieved ()

Module 2: Grains and Oilseeds Sampling

Question 7 [8]

Explain the importance of sampling as part of the grading process.

Total achieved ()

Question 8 [8]

List and explain the four basic characteristics of sampling.

Total achieved ()

Question 9 [9]

Complete the table below to indicate the correct representative and working sample sizes for each grain type:

Grain/Oilseed	Representative Sample	Working Sample
Wheat		
Sorghum		
Soya Beans		
Dry Beans		

Total achieved ()

Total achieved ()

Grading: Grains, Oilseeds and Legumes

Assessment COMPULSORY: Maize and Wheat

Assessment ELECTIVE: Choose 2

Sorghum	
Popcorn	
Barley	
Canola	
Oats	
Triticale	
Sunflower	
Soya bean	
Groundnuts	
Dry beans	
Lupins	
Peas	
Lentils	

1. Describe the following (Definitions)

“Another colour”

“Poisonous seeds”

“Foreign matter”

“6.35 mm round hole sieve”

“Defective maize”

“Pinked maize”

“Mouldy kernels”

“Heat damaged kernels”

“Coffee stained kernels”

“Oxidation stained maize”

“Frost damaged kernels”

“Sprouted kernels”

“Shrivelled or obviously immature”

“Water damaged kernels”

“Maize treated with a chemical substance”

“Discoloured maize kernels”

2. **Seen from an agricultural point of view, maize is classified into three groups, discuss each group in full.**

Defective maize

Another colour

Pinked maize

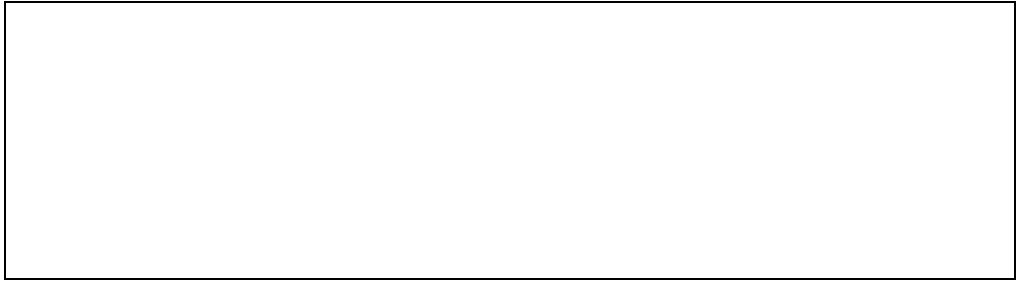
7. Calculate the percentages of the following defects:

- a. Sample of maize = 165.3g Defective maize 3.0g

- b. Sample of maize = 183.9g Other colour maize 5.6g

- c. Sample of maize = 154.2g Insect damaged maize 4.2g

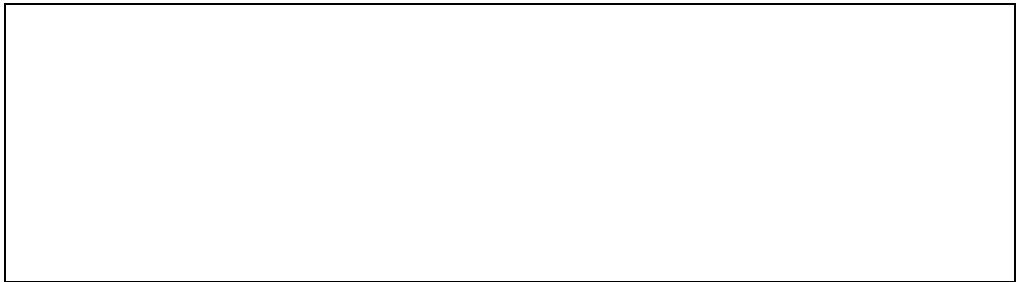
d. Sample of maize = 162.3g Sorghum 9.4g



e. Sample of maize = 195.3g Fusarium 2.3g



f. Sample of maize = 165.3g Pinked maize kernels 4.5g



8. Award a class and grade to the following samples:

a) White maize

Defective above the 6.35mm sieve	3.0%
Defective below the 6.35mm sieve	2.8%
Foreign matter	0.4%
Other colour	9.0%
Pinked maize kernels	11.5%
Moisture	13.4%

Class

No	Foreign matter	Defective kernels		Another colour	Total	Pinked maize
		Below 6,35 mm sieve	Above 6,35 mm sieve			
1.						
2.						
3.						
4.						
5.						
Total						
Grade						

FINAL CLASS AND GRADE

b) Yellow Maize

Defective above the 6.35mm sieve	3.0%
Defective below the 6.35mm sieve	6.2%
Foreign matter	0.2%
Other colour	9.0%
Moisture	12.4%

Class

No	Foreign matter	Defective kernels		Another colour	Total	Pinked maize
		Below 6,35 mm sieve	Above 6,35 mm sieve			
1.						
2.						
3.						
4.						
5.						
Total						
Grade						

FINAL CLASS AND GRADE

c) White maize	
Defective above the 6.35mm sieve	4.3%
Defective below the 6.35mm sieve	2.8%
Foreign matter	0.8%
Other colour	2.0%
Pinked maize kernels	13.5%
Moisture	14.4%

Class

No	Foreign matter	Defective kernels		Another colour	Total	Pinked maize
		Below 6,35 mm sieve	Above 6,35 mm sieve			
1.						
2.						
3.						
4.						
5.						
Total						
Grade						

FINAL CLASS AND GRADE _____

d) White maize	
Defective above the 6.35mm sieve	10.0%
Defective below the 6.35mm sieve	2.8%
Foreign matter	0.1%
Other colour	1.0%
Pinked maize kernels	0.5%
Moisture	12.5%

Class

No	Foreign matter	Defective kernels		Another colour	Total	Pinked maize
		Below 6,35 mm sieve	Above 6,35 mm sieve			
1.						
2.						
3.						
4.						
5.						
Total						
Grade						

FINAL CLASS AND GRADE _____

e) Yellow Maize

Defective above the 6.35mm sieve	3.0%
Defective below the 6.35mm sieve	2.8%
Wheat	0.4%
Sun flower	9.0%
Moisture	13.4%

Class

No	Foreign matter	Defective kernels		Another colour	Total	Pinked maize
		Below 6,35 mm sieve	Above 6,35 mm sieve			
1.						
2.						
3.						
4.						
5.						
Total						
Grade						

FINAL CLASS AND GRADE _____

f) White maize

Diplodia	3.0%
Fusarium	2.5%
Insect damage	3.3%
Defective below the 6.35mm sieve	2.8%
Stones, coal and dung	0.4%
Other colour	0.4%
Pinked maize kernels	1.7%
Moisture	12.4%

Class

No	Foreign matter	Defective kernels		Another colour	Total	Pinked maize
		Below 6,35 mm sieve	Above 6,35 mm sieve			
1.						
2.						
3.						
4.						
5.						
Total						
Grade						

FINAL CLASS AND GRADE

g) Yellow maize

Defective above the 6.35mm sieve	8.0%
Defective below the 6.35mm sieve	5.8%
Stones below the 6.35mm round-hole sieve	0.8g
Foreign matter	0.1%
Other colour	2.0%
Moisture	16.4%

Class

No	Foreign matter	Defective kernels		Another colour	Total	Pinked maize
		Below 6,35 mm sieve	Above 6,35 mm sieve			
1.						
2.						
3.						
4.						
5.						
Total						
Grade						

FINAL CLASS AND GRADE _____

h) White maize	
Defective below the 6.35mm sieve	7.2%
Foreign matter	0.4%
Other colour	1.0%
Pinked maize kernels	1.5%
Moisture	13.4%

Class

No	Foreign matter	Defective kernels		Another colour	Total	Pinked maize
		Below 6,35 mm sieve	Above 6,35 mm sieve			
1.						
2.						
3.						
4.						
5.						
Total						
Grade						

FINAL CLASS AND GRADE

i) Yellow maize

Defective above the 6.35mm sieve	22.0%
Foreign matter	0.4%
Other colour	9.0%
Moisture	13.4%

Class

No	Foreign matter	Defective kernels		Another colour	Total	Pinked maize
		Below 6,35 mm sieve	Above 6,35 mm sieve			
1.						
2.						
3.						
4.						
5.						
Total						
Grade						

FINAL CLASS AND GRADE

j) White maize	
Defective below the 6.35mm sieve	2.8%
Rodent damaged maize kernels	2.5%
Insect damaged	1.2%
Zea maize Oaxacan Green	20.0%
Foreign matter	0.4%
Pinked maize kernels	11.5%
Moisture	13.4%

Class

No	Foreign matter	Defective kernels		Another colour	Total	Pinked maize
		Below 6,35 mm sieve	Above 6,35 mm sieve			
1.						
2.						
3.						
4.						
5.						
Total						
Grade						

FINAL CLASS AND GRADE

1. Describe the following (Definitions)

“other grain”

“damaged wheat”

“heavily frost-damaged wheat”

“field fungi infected wheat”

“unthreshed ears”

“storage fungi infected wheat”

“protein content”

“stinking smut infection”

“falling number”

“foreign matter”

2. Name the classes of wheat

3. Name the grades for wheat

4. What is the falling number value for the different grades of wheat?

5. What are the factors that influence the hectolitre mass of wheat?

Percentage storage fungi infected wheat

7. Award a class and grade to the following samples:

SST 387	
Falling Number (FN)	279 s
Protein content	12.2%
Hectolitre mas	81 kg
Oats	12%
Buck-wheat	2.5%
Sprouted rye	2%
Screenings	2.8%
Insect damaged wheat	1.2%

PAN 3161	
Protein content	10.8%
Hectolitre mass	78 kg
Screenings	0.8%
Vicia	1%
Immature oats	1%
FN	320s
Moisture content	12.6%

SST 875	
Protein content	13%
Hectolitre mass	79 kg
Screenings	0.9%
Maize	1%
Wild oats	1%
FN	256s

SST 356	
Protein content	11.2%
Hectolitre mass	73kg
Screenings	1.1%
Insect damaged – Beta-DN	5%
Maize	0.5%
Immature wheat	2%
FN	310s

PAN 3161	
Protein content	9.9%
Hectolitre mass	76kg
Lupins	0.8%
Rye	0.3%
Barley	0.5%
Grain sorghum	0.1%
Sprouted wheat	2%
Screenings	2%
FN	262s

ELANDS	
Protein content	11.9%
Hectolitre mass	80 kg
Screenings	1.2%
Wild buck-wheat	0.5%
Lupins	0.4%
Moisture content	12.2%
FN	360s

CRN 826	
Protein content	12.5%
Hectolitre mass	78 kg
Screenings	2.4%
Scheepers 69	4%
Foreign matter	1%
Heat damaged SST 822	0.5%%
FN	340s

SST 843	
Protein content	11.6%
Hectolitre mass	77 kg
Screenings	1.8%
Unthreshed ears	1%
Mould infected soya beans	1%
Sprouted barley	1%
Vicia	1.2%
FN	203s

KOMATI	
Protein content	12.5%
Hectolitre mass	76 kg
Screenings	0.8%
Durum	4%
Elands	16%
Moisture content	13.9%
Vicia	1%
Sprouted oats	0.5%
FN	320s

GARIEP	
Protein content	14.1%
Hectolitre mass	74 kg
Screenings	1.3%
Insect damaged barley wheat	1%
Morning Glory seeds	1/10kg
Heat damaged	2.9%
FN	630s

1. Describe the following (Definitions)

“damaged sunflower seeds”

“poisonous seeds”

“sclerotinia”

“sunflower seeds”

“screenings”

“standard sieve”

“foreign matter”

2. Name the classes of sunflower seeds

3. What is the standard for each class of sunflower seed?

4. Name the grades for sunflower seeds

5. Describe the standard for sunflower seeds

6. How is the following determined:

Percentage damaged sunflower seed

Percentage sclerotinia

Percentage screenings

Percentage of sunflower seed of another class

Percentage of foreign matter

7. Determine the class and grade of the following samples of sunflower seed. All the samples represent Class FH.

a)

Moisture content	8.1%
Sclerotia	1.1%
Maize	3.2%
Screenings	2.0%
Oil content	38.5%

		1	2	3	4	Total	Grade
1	Damaged sunflower seed						
2	Screenings						
3	Sclerotinia						
4	Foreign matter						
5	Total deviations for 2, 3 and 4 collectively: Provided that such deviations are individually within the limits of each item						
Final grade							

b)

Moisture content	9.4%
Wheat	1.5%
Screenings	0.4%
Convolvulus	6/1000g
Stones	0.1%

		1	2	3	4	Total	Grade
1	Damaged sunflower seed						
2	Screenings						
3	Sclerotinia						
4	Foreign matter						
5	Total deviations for 2, 3 and 4 collectively: Provided that such deviations are individually within the limits of each item						
Final grade							

c)

Moisture content	7.7%
Oil content	43%
Screenings	0.6%
Foreign objects	0.8%
Heat damaged	2.6%

		1	2	3	4	Total	Grade
1	Damaged sunflower seed						
2	Screenings						
3	Sclerotinia						
4	Foreign matter						
5	Total deviations for 2, 3 and 4 collectively: Provided that such deviations are individually within the limits of each item						
Final grade							

d)

Oil content	41.3%
Sclerotia	4.0%
Screenings	0.3%
Smell	Khaki bush
Moisture content	10.4%

		1	2	3	4	Total	Grade
1	Damaged sunflower seed						
2	Screenings						
3	Sclerotinia						
4	Foreign matter						
5	Total deviations for 2, 3 and 4 collectively: Provided that such deviations are individually within the limits of each item						
Final grade							

8. Determine the mass of a consignment sunflower seed with a total mass of 20 550kg and with 1.3% sclerotia, 0.5% screenings and 1.1% foreign objects.

1. Describe the following (Definitions)

"another group"

"dark testa"

"small kernel sorghum"

"unthreshed sorghum"

"poisonous seeds"

"sorghum"

"foreign matter"

"weather-stained sorghum"

“white sorghum”

“standard sieve”

“defective sorghum”

2. Name the classes of sorghum

3. What is the standard for each class sorghum

4. Name the grades for sorghum

5. Describe the standard for sorghum

6. How is the following determined

Foreign matter content

Unthreshed sorghum content

Defective sorghum- and small kernel sorghum content

Sorghum content of another group

White sorghum content

Weather-stained sorghum content

7. Determine the class and grade of the following samples:

- A
1. Light testa sorghum
 2. 10 smut balls
 3. Foreign matter – 1.8%
 4. Unthreshed sorghum – 5.2%
 5. Defective sorghum – 8.4%
 6. Small kernel sorghum – 3.0%
 7. Sorghum of another group – 5.2%
 8. White sorghum – 5.2%
 9. Weather stained sorghum – 22%

GRADING TABLE

Class

Grading factors	1	2	3	4	Total	Grade
Foreign matter						
Unthreshed sorghum						
Defective sorghum						
Small kernel sorghum						
Total of defective and small kernel sorghum						
Sorghum of another group						
Sorghum of a white group						
Total of a white group and another group						
Weather stained sorghum						

Final grade

- B
1. Dark testa sorghum - GH
 2. 2.0g sunflower.
 3. Foreign matter – 2.5%
 4. Unthreshed sorghum – 3.0%
 5. Defective sorghum – 5.4%
 6. Small kernel sorghum – 5.0%
 7. Sorghum of another group – 5.2%
 8. White sorghum – 5.2%
 9. Weather stained sorghum – 22%

GRADING TABLE

Class

Grading factors	1	2	3	4	Total	Grade
Foreign matter						
Unthreshed sorghum						
Defective sorghum						
Small kernel sorghum						
Total of defective and small kernel sorghum						
Sorghum of another group						
Sorghum of a white group						
Total of a white group and another group						
Weather stained sorghum						

Final grade

- C
1. Dark testa sorghum - GL
 2. 5.2g sorghum of which embryo skin are cracked.
 3. Foreign matter – 2.3%
 4. Unthreshed sorghum – 2.2%
 5. Defective sorghum – 9.4%
 6. Small kernel sorghum – 19.8%
 7. Sorghum of another group – 2.2%
 8. White sorghum – 22.5%
 9. Weather stained sorghum – 52%

GRADING TABLE

Class

Grading factors	1	2	3	4	Total	Grade
Foreign matter						
Unthreshed sorghum						
Defective sorghum						
Small kernel sorghum						
Total of defective and small kernel sorghum						
Sorghum of another group						
Sorghum of a white group						
Total of a white group and another group						
Weather stained sorghum						

Final grade

- D
1. Light testa sorghum
 2. 5.3% sorghum with a light green colour.
 3. Foreign matter – 0.8%
 4. Unthreshed sorghum – 1.2%
 5. Defective sorghum – 1.4%
 6. Small kernel sorghum – 3.0%
 7. Sorghum of another group – 2.2%
 8. White sorghum – 0.2%
 9. Weather stained sorghum – 12%

GRADING TABLE

Class

Grading factors	1	2	3	4	Total	Grade
Foreign matter						
Unthreshed sorghum						
Defective sorghum						
Small kernel sorghum						
Total of defective and small kernel sorghum						
Sorghum of another group						
Sorghum of a white group						
Total of a white group and another group						
Weather stained sorghum						

Final grade

- E 1. Dark testa sorghum- GH
- 2. 2 smut balls
- 3. Insect damaged sorghum – 2.3%
- 4. Unthreshed sorghum – 19.2%
- 5. Defective sorghum – 0.4%
- 6. Small kernel sorghum – 18.3%
- 7. Sorghum of another group –52.3%
- 8. White sorghum – 5.2%
- 9. Weather stained sorghum – 22%

GRADING TABLE

Class

Grading factors	1	2	3	4	Total	Grade
Foreign matter						
Unthreshed sorghum						
Defective sorghum						
Small kernel sorghum						
Total of defective and small kernel sorghum						
Sorghum of another group						
Sorghum of a white group						
Total of a white group and another group						
Weather stained sorghum						

Final grade

- F
1. Light testa sorghum
 2. Sorghum with musty smell
 3. 52 Thorn apple seeds
 4. Unthreshed sorghum – 0.2%
 5. Defective sorghum – 1.4%
 6. Small kernel sorghum – 0.0%
 7. Sorghum of another group – 2.2%
 8. White sorghum – 3.2%
 9. Weather stained sorghum – 22%

GRADING TABLE

Class

Grading factors	1	2	3	4	Total	Grade
Foreign matter						
Unthreshed sorghum						
Defective sorghum						
Small kernel sorghum						
Total of defective and small kernel sorghum						
Sorghum of another group						
Sorghum of a white group						
Total of a white group and another group						
Weather stained sorghum						

Final grade

1. Describe the following (Definitions)

“ other grain”

“defective soya beans”

“poisonous seeds”

“ heat damaged”

“frost damaged”

“wet pods”

“ pods”

“sclerotinia”

“ soya beans”

“mould infected”

“the 4,75mm round-hole screen”

“soiled soya beans”

“foreign matter”

2. Name the classes of soya beans

3. What is the standard for each class of soya beans

4. Name the grades for soya beans

5. Describe the standard for soya beans

6. How is the following determined:

Percentage wet pods

Percentage of other grain, sunflower seed, stones and foreign matter

Percentage defective soya beans

Percentage soya beans and pieces of soya beans that pass through the 4,75mm round hole screen

Percentage sclerotinia

Percentage of soiled soya beans

Determine the class and grade of the following samples:

Sample no.	1	2	3	4	5
Wet pods	0.1%	0.3%	0%	0.5%	0%
Foreign matter, including stones, other grain and Sunflower seeds:	2.9%	1.9%	4.5%	0.4%	1.7%
Foreign material on top of 4.75mm round hole sieve	0.2%	0.3%	0.4%	0%	0.2%
Foreign material on top of 1.8mm slotted sieve	1.3%	0.9%	1.2%	0%	0.1%
Foreign material in the pan (Throughs of the 1.8mm slotted sieve)	0.6%	0.7%	1.3%	0%	1.4%
Other Grain	0.1%	0%	0.6%	0.4%	0
Sunflower seed	0.1%	0%	0.1%	0%	0
Stones	0.6%	0%	0.9%	0%	0
Sclerotinia	2.2%	3.4%	4.2%	0%	1.3%
Soybeans and part of Soybeans which pass through the 4.75mm round hole screen on top of the 1.8mm slotted sieve.	6.4%	3.2%	5.5%	11.9%	7.5%
Defective Soybeans on the 4.75mm round whole screen	9.9%	3.5%	12.3%	7.8%	12.5%
Soiled Soybeans on top of 4.75mm round hole sieve	4.8%	15.4%	9.5%	7.3%	0%
Deviations in (B) and (F) collectively. Provided that such deviation are individually within the limits of said items.	5.1%	5.3%	8.7%	0.4%	3.0%
Class and grade					

1. Describe the following (Definitions)

“Broken or split dry beans“

“Dry beans”

“Broken testa”

“Bulk quantities”

“Colour group”

“Cracked testa”

“Defective dry beans”

“Form group”

“Main panel”

“Not true to type dry beans”

“Retail quantities”

“Stained”

“Speckled”

“Type group”

“Wrinkled testa”

2. What is the standard for split dry beans

3. What is the standard for each grade

4. What is the standard for Under grade dry beans

5. Describe the form groups

6. Describe the size groups

7. Describe the colour groups

Foreign matter, stones and sand

Defective, broken and split dry beans

Not true to type dry beans

Broken, wrinkled or cracked testa

11. Describe the container and marking requirements for dry beans

A Sample: **(Bulk/Retail)**

	TIPE DRY BEANS							=
	FORM							=
	SIZE							=
	COLOUR							=
No	Afwyking/Deviation	1	2	3	4	Total	Grade	
1	Foreign matter							
2	Stones and sand							
3	Total Foreign matter and stones							
4	Defective dry beans							
5	Broken/split dry bean							
6	Total defective & broken/splits							
7	Not true to tipe beans							
8	Broken testa							
9	Wrinkled/cracked testa							
10	Total Broken & Wrinkled/cracked testa							
11	Poisonous seeds							
12	Musty or unacceptcal odour							
13	Harmfull substance							
14	Moisture							
15	Remarks:							
GRADE								=

B Sample: **(Bulk/Retail)**

	TIPE DRY BEANS							=
	FORM							=
	SIZE							=
	COLOUR							=
No	Afwyking/Deviation	1	2	3	4	Total	Grade	
1	Foreign matter							
2	Stones and sand							
3	Total Foreign matter and stones							
4	Defective dry beans							
5	Broken/split dry bean							
6	Total defective & broken/splits							
7	Not true to tipe beans							
8	Broken testa							
9	Wrinkled/cracked testa							
10	Total Broken & Wrinkled/cracked testa							
11	Poisonous seeds							=
12	Musty or unacceptcal odour							=
13	Harmfull substance							=
14	Moisture							=
15	Remarks:							
GRADE								=

Knowledge: Assessment Results Summary			
Question	Total	Total Achieved	Remarks
1	30		
2	25		
3	12		
4	40		
5	4		
6	7		
7	42		
8	12		
9	8		
10	8		
11	8		
12	4		
13	10		
14	6		
15	8		
16	10		
17	100		
18	100		
19	100		
20	100		
21	100		
22	100		
Total	834		

1. Describe the following (Definitions)

“Artificially dried barley”

“Badly discoloured and heat-damaged barley”

“badly mold-infected (rotten) barley”

“black-end barley”

“black-hulled barley”

“damaged barley”

“mechanically damaged barley”

“plump barley”

“pre-germinated barley”

12. How is the following determined:

Class

Moisture content

Nitrogen content

Germination capacity

Germination energy

13. How is the following deviations in barley determined:

% maize and/or stones

plump barley

mechanically damaged barley

badly discoloured/heat-damaged barley

black-end barley

un-threshed ears

damaged barley

weather-damaged barley

pre-germinated barley

sprouted barley

1. Describe the following (Definitions)

“Canola”

“damaged seed”

“distinctly green seed”

“mouldy seed”

“canola sieve”

“snails”

“sprouted”

2. Name the classes of canola

3. What is the standard for each class canola

4. Name the grades for canola

5. Describe the standard for canola

6. How is the following determined:

Heat damaged and distinctly green seed

Foreign matter

Sclerotinia

Sprouted kernels

Ergot sclerotia

Groundnuts (100)

1. Describe the following (Definitions)

“Blackened pods”

“blemished kernels”

“broken and open pods”

“edible groundnuts”

“expressing groundnuts”

“kernel content”

“mould-infested kernels”

“noxious seeds”

“one-kernelled pod”

“raisins”

“shelled kernels”

“shrivelled kernels”

“soiled kernels”

“soiled pods”

“split kernels”

“sticks”

“sun-dried kernels”

“Unsound kernels”

5. Describe the standard for groundnuts

6. How is the following determined:

Percentage kernels of another class

Sticks, foreign matter and shelled kernels

Pods and foreign matter in kernel form

Kernel content

Final Assessment Results				
KM-01- KT01	The Grains and Oilseeds Industries			
	KT0101	Grains and oilseeds quality properties	C	NYC
	KT0102	Grains and oilseeds grading principles and regulatory framework	C	NYC
KM-01- KT02	Grains and oilseeds sampling			
	KT0201	Concept and principles of representative grains and oilseeds sampling	C	NYC
	KT202	Sampling methods and procedures	C	NYC
KM-01- KT03	Grains and oilseeds grading			
	KT0301	Organising and preparing the workplace	C	NYC
	KT0302	Grading methods and procedures	C	NYC

ASSESSOR	SIGNATURE	DATE
LEARNER	SIGNATURE	DATE
MODERATOR	SIGNATURE	DATE