

Please check the examination details below before entering your candidate information

Candidate surname

Other names

Centre Number

Learner Registration Number

Pearson BTEC Level 3
Nationals Foundation
Diploma, Diploma,
Extended Diploma

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Window for supervised period:

Thursday 16 January 2020 – Friday 17 January 2020

Supervised hours: 2 hours 30 minutes

Paper Reference **20109K**

Equine Management

Unit 2: Equine Diet and Nutrition

Set Task

You must have:

Calculator

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and learner registration number.
- Answer **all** activities.
- Answer the activities in the spaces provided – *there may be more space than you need.*
- This booklet contains material for the completion of the set task under supervised conditions.
- This booklet is specific to each series and the material must be issued only to learners who have been entered to undertake the set task in the specified series.
- This booklet should be kept securely until the start of the single 2-hour 30-minute supervised assessment session.

Information

- The total mark for this paper is 60.
- The marks for **each** activity are shown in brackets – *use this as a guide as to how much time to spend on each activity.*
- Materials allowed in the supervised assessment:
 - Calculator

Advice

- Read each activity carefully before you start to answer it.
- Try to answer every activity.
- Check your answers if you have time at the end.

Turn over ►

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Instructions for Teachers/Tutors and/or Invigilators

All learner work must be completed independently and authenticated before being submitted to Pearson by the teacher/tutor.

Learners must complete the set task using this task booklet.

Teachers/tutors should note that:

- learners should not be given any direct guidance or prepared materials
- all work must be completed independently by the learner
- learners must not bring anything into the supervised environment or take anything out without teacher/tutor approval.

Centres are responsible for putting in place appropriate checks to ensure that only permitted material is introduced into the supervised environment.

Maintaining security

- During the supervised assessment session, the assessment areas must be accessible only to the individual learner and to named members of staff.
- Learners can access their work only under supervision.
- Any work learners produce under supervision must be kept securely.
- Learners are not permitted to have access to the internet or other resources during the supervised assessment session.

After the session, the teacher/tutor will confirm that all learner work has been completed independently as part of the authentication submitted to Pearson.

The set task is a formal external assessment and must be conducted with reference to the instructions in this task booklet and the BTEC Nationals *Instructions for Conducting External Assessments (ICEA)* document to ensure that the preparatory period is conducted correctly so that learners have completed their preparation validly and independently.

Outcomes for submission

- This task and answer booklet must be submitted to Pearson.
- Each learner must complete an authentication sheet.

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Instructions for Learners

Read the Set Task information carefully.

- You must plan your time on each part of the task. You have a total of 2 hours and 30 minutes in this session to complete the task.
- You will complete this Set Task under supervision and your work will be kept securely during any breaks taken.
- You must work independently throughout the supervised assessment period and must not share your work with other learners.

Outcomes for submission

- You should complete the Set Task in this task and answer book.
- You must complete an authentication sheet.

Set Task Information

You work for a small, private stud farm called Blossom Stud. On site there are five pregnant mares, three mares with a foal at foot and two ridden horses. Part of your role is to feed the horses throughout the day. You also review the diets of all the horses to make sure that their nutritional needs are met.

Set Task

You must complete ALL activities in the set task.

Activity	Suggested time spent on activity	Total marks
Activity 1 – Feed management	20 minutes	8
Activity 2 – Diet evaluation	50 minutes	20
Activity 3 – Diet modification	30 minutes	12
Activity 4 – Diet-related disorders	50 minutes	20

TOTAL FOR PAPER = 60 MARKS



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(Total for Activity 1 = 8 marks)



Activity 2

One of your tasks at Blossom Stud is to review the diets of the horses.

Nelly is a 15 hh Irish Draught x Thoroughbred mare. She weighs approximately 550 kg and is pregnant with her second foal. Nelly has no medical issues, however she is underweight. Nelly is fed in the field with hay on the ground and half a scoop of stud mix in a bucket, twice a day. She is not monitored while eating.

Evaluate the suitability of Nelly's diet. In your answer you should:

- consider Nelly's size and weight
- consider Nelly's feeding regime, including timing and presentation
- analyse the diet using information provided in the feed and nutrient data table
- justify your conclusions.

Feed and nutrient data table – Nelly

am feed	pm feed
0.5 kg stud mix	0.5 kg stud mix

The forage Nelly eats provides approximately 12.2 MCal/day.

Daily nutrient requirements of 550 kg pregnant mare

DE (MCal)	Crude protein (g)	Lysine (g)	Calcium (g)	Phosphorus (g)	Magnesium (g)	Potassium (g)	Vitamin A (1000 IU)
19.2	797	39	36	26	13	30	25.8

Nutrition label from stud mix, formulated for pregnant mares and young stock

DE (MCal/kg)	2.9
Crude protein (%)	16
Crude fibre (%)	7.5
Crude fats and oils (%)	4.5
Crude ash (%)	8

Ingredients: Rolled oats, micronised barley, maize, peas, calcium carbonate, vitamins and minerals

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You should spend approximately 50 minutes on this activity.

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(Total for Activity 2 = 20 marks)



Activity 3

General is a 16.3 hh, six-year-old Irish Draught x Thoroughbred. He weighs 800 kg and is currently shown in ridden hunter classes. His coat has a healthy shine but he is overweight and lacks energy.

General is turned out for five hours every day in a field with plenty of good grass and is ridden for 45 minutes to an hour, five days a week. His work is a mixture of schooling and short hacks around the roads.

General's diet is:

am feed	pm feed	Supplements
7 kg hay 1 kg conditioning mix sugar beet molassed chaff	7 kg hay 1 kg conditioning mix sugar beet molassed chaff	feed balancer linseed oil garlic

Plan a more suitable diet for General.

In your answer you should include:

- an assessment of the composition of the current diet
- a justification for your recommendations for change.

You should spend approximately 30 minutes on this activity.

(12)

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(Total for Activity 3 = 12 marks)



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(Total for Activity 4 = 20 marks)

TOTAL FOR TASK = 60 MARKS





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