Changing lives through learning

Access to Higher Education Unit

This unit forms part of an Access to HE Diploma. If delivering the graded version of this unit, please refer to the Provider Handbook for details on grading descriptors and the application of these across units within your programme.

Unit Title: Microorganisms

Graded Unit Reference Number: GA33BIO20

Ungraded Unit Reference Number: UA33BIO20

Module: Microbiology

Level: Three (3)

Credit Value: Three (3)

Minimum Guided Learning Hours: 30

Units barred for selection against this unit:

- Microorganisms and Infection (GA36BIO36 / UA36BIO36)

Learning Outcome (The Learner will):	Assessment Criterion (The Learner can):
1. Know the main features of the different classes of microorganisms	1.1 Distinguish the features of eukaryotes, prokaryotes and akaryotes and use these to classify microorganisms
	1.2 Identify bacteria, fungi, protists and viruses from descriptions, diagrams or photographs
2. Understand the different modes of nutrition among microorganisms and how this affects their incidence and impact on other species	2.1 Compare the modes of nutrition among microorganisms in terms of sources of energy and materials (heterotrophes, autotrophes, phototrophes, chemotrophes)
	2.2 Explain the distribution of different microorganisms in terms of their nutrition and tolerance to environmental conditions (temperature, oxygen etc.)
	2.3 Evaluate the impact of microorganisms on other species in terms of benefits and harm

3.	Understand the importance of the beneficial relationships between microorganisms and human populations	3.1 Identify a range of useful traditional products made by humans using microorganisms, in each case explaining the benefit conferred by the microorganism
		3.2 For one traditional product, suggest how a relationship between humans and a microorganism might have arisen and describe the transition from small scale production to industrial production