

Cambridge **TECHNICALS LEVEL 3**

IT

Cambridge
TECHNICALS
2016

MAPPING GUIDE

Unit 12 Mobile Technology

Version 1

INTRODUCTION

Prodigy are delighted to work with OCR, a progressive Awarding Organisation, who share the ambition of providing high-quality qualifications, learning solutions that are industry-led and reliable and valid assessment. The Cambridge Technicals in IT qualifications provide 'future-ready' skills for a learner to further their ambitions, whether that is in terms of further academic study, enter an apprenticeship or as a springboard to gaining employment.

Prodigy Learning (Prodigy) is an award-winning EdTech business providing digital skills certifications and learning solutions for a range of technologies including Adobe, Autodesk and Microsoft. Established in 2000, Prodigy now have offices in Dublin, London and Sydney. Having worked closely with Microsoft since 2000, Prodigy is a Microsoft Authorised Education Gold Partner and a MS Global Training Partner supporting academic institutions utilise Microsoft Imagine Academy, Microsoft certifications and other Microsoft Education solutions.

Historically, the UK has thrived on a rich research and technology base and has been at the forefront of global technology innovation. Enthusing young learners about following exciting careers in science, technology, engineering and mathematics (STEM) subjects is fundamental to maintaining this success. However, currently the UK has a widely acknowledged skills gap in the pipeline of talent studying computing-related disciplines. Therefore, providing high quality, engaging and relevant qualifications that equip learners with current technical knowledge and skills is essential to encourage more young people into the computing discipline, and moreover to ensure they progress to jobs in the sector.

MAPPED TO MTA DEVICES AND MOBILITY 98-368

3. Understand Device Security

	3.1.1 Describe uses of private networks, public networks, firewalls, and clouds
1.2.1 Connectivity - wired vs wireless (e.g. number of users, range, mobility, security, ease of access)	X

4. Understand Cloud Services

	4.1.1 Describe productivity services, storage services, communications services, and search services	4.2.1 Describe Microsoft Intune capabilities;	4.3.1 Describe virtual machines;
1.4.1 Current and potential future uses - Internet of Things	X	X	X
1.4.2 Current and potential future uses - smart city	X	X	X
1.4.3 Current and potential future uses - tagging endangered species	X	X	X
1.4.4 Current and potential future uses - robotic devices e.g. iRobot vacuum cleaner	X	X	X
1.4.5 Current and potential future uses - sat-nav	X	X	X
1.4.6 Current and potential future uses - consumer internet e.g. price check in supermarket, QR codes	X	X	X
1.4.7 Current and potential future uses - GPS	X	X	X
1.4.8 Current and potential future uses - health monitors	X	X	X
1.4.9 Current and potential future uses - CCTV	X	X	X

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	4.1.1 Describe productivity services, storage services, communications services, and search services	4.2.1 Describe Microsoft Intune capabilities;	4.3.1 Describe virtual machines;
1.4.10 Current and potential future uses - drones	X	X	X
1.4.11 Current and potential future uses - ATC and TCAS	X	X	X
1.4.12 Current and potential future uses - stock control and theft reduction with RFID	X	X	X
1.4.13 Current and potential future uses - car trackers	X	X	X
1.4.14 Current and potential future uses - electronic tagging of offenders	X	X	X
1.4.15 Current and potential future uses - cars e.g. self-drive, traffic update	X	X	X
2.1.1 Use of technologies - access to information from remote locations	X	X	X
2.1.2 Use of technologies - maintain contact between staff	X	X	X
2.1.3 Use of technologies - collaborative working	X	X	X
2.1.4 Use of technologies - using cloud based solutions to reduce up-front technology costs	X	X	X
2.1.5 Use of technologies - increased productivity and profitability	X	X	X
2.1.6 Use of technologies - using social media for digital marketing	X	X	X

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5. Understand Enterprise Mobility

	5.2.1 Describe Company Portal;	5.2.2 describe Work Folders;	5.3.1 Describe device-centric to people-centric IT;	5.3.2 describe desktop virtualization;
1.4.1 Current and potential future uses - Internet of Things	X	X	X	X
1.4.2 Current and potential future uses - smart city	X	X	X	X
1.4.3 Current and potential future uses - tagging endangered species	X	X	X	X
1.4.4 Current and potential future uses - robotic devices e.g. iRobot vacuum cleaner	X	X	X	X
1.4.5 Current and potential future uses - sat-nav	X	X	X	X
1.4.6 Current and potential future uses - consumer internet e.g. price check in supermarket, QR codes	X	X	X	X
1.4.7 Current and potential future uses - GPS	X	X	X	X
1.4.8 Current and potential future uses - health monitors	X	X	X	X
1.4.9 Current and potential future uses - CCTV	X	X	X	X
1.4.10 Current and potential future uses - drones	X	X	X	X
1.4.11 Current and potential future uses - ATC and TCAS	X	X	X	X
1.4.12 Current and potential future uses - stock control and theft reduction with RFID	X	X	X	X
1.4.13 Current and potential future uses - car trackers	X	X	X	X
1.4.14 Current and potential future uses - electronic tagging of offenders	X	X	X	X

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	5.2.1 Describe Company Portal;	5.2.2 describe Work Folders;	5.3.1 Describe device-centric to people-centric IT;	5.3.2 describe desktop virtualization;
1.4.15 Current and potential future uses - cars e.g. self-drive, traffic update	X	X	X	X
2.1.1 Use of technologies - access to information from remote locations	X	X	X	X
2.1.2 Use of technologies - maintain contact between staff	X	X	X	X
2.1.3 Use of technologies - collaborative working	X	X	X	X
2.1.4 Use of technologies - using cloud based solutions to reduce up-front technology costs	X	X	X	X
2.1.5 Use of technologies - increased productivity and profitability	X	X	X	X
2.1.6 Use of technologies - using social media for digital marketing	X	X	X	X

MAPPED TO MTA CLOUD FUNDAMENTALS 98-369

1. Understand the Cloud

	1. Understand the Cloud (20-25%)	1.1.1 Differentiate between on-premises IT service models;	1.1.2 differentiate between subscription or pay as you go vs. upfront CapEx/ OpEx funding model;	1.1.3 use cloud services to expand capacity (elasticity of the cloud), scalability, redundancy, and availability; differentiate between cloud services that are configurable vs. on-premises services that are customizable	1.2.1 Describe how cloud services manage privacy, how compliance goals are met, how data is secured at rest or on-the-wire, and how data and operations transparency requirements are met	1.3.1 Describe the service/ feature improvement process;	1.3.2 monitor service health, service maintenance, and future roadmap publishing;	1.3.3 identify guarantees, service level agreements (SLA), and capping of liability of the cloud service provider
2.1.4 Use of technologies - using cloud based solutions to reduce up-front technology costs	X	X	X	X	X	X	X	X

2. Enable Microsoft Cloud

	2.1.1 Plan networking and domains, firewall rule, client requirements, bandwidth implications, and DNS	2.2.1 Understand the different options and plans available for Office 365 and Microsoft Intune	2.3.1 Name your tenant; set up your first administrator;	2.3.2 determine tenant location	2.4.1 Register domains, verify domains, choose the domain purpose;	2.4.2 identify required DNS record types
2.1.4 Use of technologies - using cloud based solutions to reduce up-front technology costs	X	X	X	X	X	X



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