

Pacer for Intake 1, 2020 Systems Development Students Completing the Additional Requirements for the International Diploma

Welcome to the next stage of your studies

In order to complete the requirements to obtain the validation certificate from NCC, our Systems Development students at The AIE must do the following:

Step 1. Complete the National Certificate: Systems Development

Step 2. Enroll for a specialization

Step 3. Complete the additional requirements for NCC validation.

Classes for the National Certificate have ended, and classes for specialisations and NCC will start in the week of 8 February. If you have not completed your POE for the National Certificate yet, you will also need to do that during this term.

Additional Subjects to Complete:

To complete the requirements for the NCC validation, students must complete the following 2 additional subjects.

Subject	Informal assessments	External exams
CompTia A+	<ul style="list-style-type: none"> - Exercises from the workbook to complete for each lesson - Online quizzes can be accessed from the Student Portal each week. You are strongly encouraged to complete these to test your knowledge of the subject content. 	CompTia exam 220-1001 CompTia exam 220-1002
CompTia Network+		CompTia exam N10-007

- Writing the CompTIA external exams
 - Make sure you submit a Student Support Ticket in the Student Portal to request a CompTIA exam voucher at least 2 weeks before you plan to make your booking for this exam.
 - Exams are written at Pearson Vue centres (visit <https://home.pearsonvue.com/test-taker.aspx> and search for *CompTIA* program testing centres to find an exam centre and make a booking)
 - **Submitting your exam results:** After you have written and passed your exam, **upload a document clearly showing your name and exam results** to the exam assessment in the Student Portal. This will enable the AIE to record your exam mark as part of monitoring and reporting on your progress.

Additional Assessments to Complete:

In addition to the 2 new subjects, students must also complete additional assessments that were optional for the National Certificate, but are required for the NCC validation.

Subject	Internal assessments	External exams
Digital Literacy	3 Additional summatives (MS Word, MS Excel, MS Access)	
Software Development Fundamentals		Microsoft MTA Exam 98-361 (Software Development Fundamentals) View the exam topics and skills measured: https://docs.microsoft.com/en-us/learn/certifications/exams/98-361
Web Development Fundamentals		Microsoft MTA Exam 98-375 (HTML5 Application Development) View the exam topics and skills measured: https://docs.microsoft.com/en-us/learn/certifications/exams/98-375
Database Fundamentals	Students must completed 2 additional summatives, available in the student portal.	

- Writing the Microsoft MTA external exams
 - View the exam topics and skills measured: <https://docs.microsoft.com/en-us/learn/certifications/exams/98-366>
 - Make sure you submit a Student Support Ticket in the Student Portal to request an MTA exam voucher at least 2 weeks before you plan to make your booking for this exam.
 - You will book to write the exam at a Certiport centre (visit <https://www.certiport.com/portal/Pages/TakeAnExamLogin.aspx> and select *Microsoft Technology Associate* option to find an exam centre and make a booking)
 - **Submitting your exam results:** After you have written and passed your exam, **upload a document clearly showing your name and exam results** to the exam assessment in the Student Portal. This will enable the AIE to record your exam mark as part of monitoring and reporting on your progress.

Important Resources for the additional subjects:

- The CompTia manuals for the 2 additional subjects are provided to you as e-textbooks.
 - The learning material supplied by the AIE for this subject is official courseware from the vendor that is designed to prepare you for the related international exams.
 - However, please note that you might also wish to supplement the official courseware and find more resources online that could be helpful as you prepare for writing the exam. Depending on your individual needs, there is a range of free and/or paid resources such as practice tests, exam reference guides, etc. available online that you could consider for use as supplemental material.
- Additional resources (e.g. videos) could also be made available in the Student Portal

Evidence requirements for obtaining the NCC validation certificate:

To qualify for obtaining the validation certificate from NCC, students must submit the following set of evidence:

- The completed National Certificate: IT Systems Development
 - The NQF5 qualification from the MICT Seta must be awarded before a student can qualify for the NCC validation certificate
- The evidence of passing the additional subjects and assessments as described above.

Assessment Schedule

Subject	Starting	Assessment	Due date
Digital Literacy	Completed (Additional assessments)	Summative 1 (MS-Word), Summative 2 (MS-Excel), Summative 3 (MS-Access)	All due by 19 Feb
Personal Development	Completed	Workbooks and summative assessments	Complete any outstanding assessments asap. Add to POE
Database Development	Completed (Additional assessments)	Workbook, Summative assessments 1 and 2	Complete asap if outstanding. Add to the POE.
		Summative assessments 3 and 4	Due by 12 March
Software Development Fundamentals	Completed Additional assessments		Due by 2 April
Web Development Fundamentals	Completed Additional assessments		Due by 23 April
Programming with C#	Completed	<p>The Microsoft exam has expired on 31 January. If you have not completed and passed the Microsoft exam, ensure that you complete the new internal assessments instead.</p> <p>Evidence must be added to the POE for either the external exam or the internal assessments.</p>	
CompTIA A+	8 Feb 2021 to 6 March 2021	CompTIA A+ Core 1 (Exam 220-1001)	Due by 14 May
		CompTIA A+ Core 2 (Exam 220-1002)	Due by 4 June
CompTia Network+	29 Mar 2021 to 7 May 2021	CompTia Network+ (Exam N10-007)	Due by 25 June

Class Schedule for Additional Subjects

Week	Starting	CompTIA A+ Topics (CompTia exam 220-1001)	
Week 1	8 Feb 2021	Chapter 1 Motherboards, Processors, and Memory Chapter 2 Internal Expansion, Storage Devices, and Power Supplies Chapter 3 Peripherals and Connectors	Each week, complete these activities: - Watch the online videos - Complete the text book exercises - Complete the related online quiz
Week 2	15 Feb 2021	Chapter 4 Custom PC Configurations Chapter 5 Installing and Configuring Printers Chapter 6 Networking Fundamentals	
Week 3	22 Feb 2021	Chapter 7 Introduction to TCP/IP Chapter 8 Installing Wireless and SOHO Networks Chapter 9 Network Services, Virtualization, and Cloud Computing Chapter 10 Understanding Laptops	
Week 4	1 March 2021	Chapter 11 Understanding Mobile Devices Chapter 12 Mobile Device Connectivity and Synchronization Chapter 13 Troubleshooting Methodology and Resolving Core Hardware Problems Chapter 14 Hardware and Network Troubleshooting	
Week	Starting	CompTIA A+ Topics (CompTia exam 220-1002)	
Week 5	8 Mar 2021	1.Operating System Basics 2.Operating System Administration 3. Working with Windows 10 4.Working with Windows 8/8.1 5.Working with Windows 7	Each week, complete these activities: - Watch the online videos - Complete the text book exercises - Complete the related online quiz
Week 6	15 Mar 2021	1. Working with Mac OS and Linux 2.Scripting and Remote Access 3.Security Concepts 4.Securing Operating Systems	
Week 7	22 Mar 2021	1.Troubleshooting Operating Systems and Security 2. Documentation and Professionalism 3. Safety and Environmental Concerns	
Week	Starting	CompTIA Network+ Topics (CompTia exam N10-007)	

Week 8	29 Mar 2021	Chapter 1: Introduction to Networks Chapter 2: OSI Specifications Chapter 3: Network Topologies, Connectors, and Wiring Standards	<p><i>Each week, complete these activities:</i></p> <ul style="list-style-type: none"> - Watch the online videos - Complete the text book exercises - Complete the related online quiz
Week 9	5 April 2021	Chapter 4: Ethernet Chapter 5: Networking Devices Chapter 6: Introduction to IP Chapter 7: IP Addressing	
Week 10	12 April 2021	Chapter 8: Subnet Troubleshooting and NAT Chapter 9: Introduction to IP Routing Chapter 10: Routing Protocols Chapter 11: Switching and VLANs	
Week 11	19 April 2021	Chapter 12: Wireless Technologies Chapter 13: Authentication and Access Control Chapter 14: Network Threats and Mitigation Chapter 15: Physical and Hardware Security	
Week 12	26 April 2021	Chapter 16: Wide Area Networks (WANs) Chapter 17: Command-Line Tools Chapter 18: Software and Hardware Tools Chapter 19: Network Troubleshooting	
Week 13	3 May 2021	Chapter 20: Management, Monitoring, and Optimization Wrap-up and review	