



Schedule for (SCTP) Advanced Professional Certificate in Cloud Infrastructure Engineering - Cohort 11						Updated:	25 Mar 25
	Date	Unit	Lesson Title	Start	End	Location	
CE1: IT Infrastructure Essentials			Key Topics: Week 1: Introduction to IT Infrastructure and Networks Week 2: Network Communications and Security Week 3: Server Administration Week 4: Network Security, High Availability & Disaster Recovery Week 5: Load Balancing Week 6: Databases and Cloud Migration	Start	End	Location	
MON	26 May-25		Welcome + Introduction	19:00	22:00	Online Zoom	
TUE	27 May-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
WED	28 May-25	1.1	Introduction to IT Infrastructure	19:00	22:00	Online Zoom	
THU	29 May-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
FRI	30 May-25	1.2	Networking Essentials	19:00	22:00	Online Zoom	
SAT	31 May-25	CW	Career Workshop #1 - Uncover Your Next Path: Career Discovery for Mid-Career Changers	10:00	13:00	NTU@One-north	
SUN	1 Jun-25						
MON	2 Jun-25	1.3	Network Communications Protocol	19:00	22:00	Online Zoom	
TUE	3 Jun-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
WED	4 Jun-25	1.4	Basic Security	19:00	22:00	Online Zoom	
THU	5 Jun-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
FRI	6 Jun-25	CO	Coaching	19:00	22:00	Online Zoom	
SAT	7 Jun-25	PH	Hari Raya Haji				
SUN	8 Jun-25						
MON	9 Jun-25	1.5	Servers Administration I	19:00	22:00	Online Zoom	
TUE	10 Jun-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
WED	11 Jun-25	1.6	Servers Administration II	19:00	22:00	Online Zoom	
THU	12 Jun-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
FRI	13 Jun-25						
SAT	14 Jun-25	CO	Coaching	10:00	13:00	NTU@One-north	
SUN	15 Jun-25						
MON	16 Jun-25	1.7	Network Security	19:00	22:00	Online Zoom	
TUE	17 Jun-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
WED	18 Jun-25	1.8	High Availability & Disaster Recovery	19:00	22:00	Online Zoom	
THU	19 Jun-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
FRI	20 Jun-25						
SAT	21 Jun-25	CO	Coaching	10:00	13:00	NTU@One-north	
SUN	22 Jun-25						
MON	23 Jun-25	1.9	Load Balancing	19:00	22:00	Online Zoom	
TUE	24 Jun-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
WED	25 Jun-25	1.10	Database I	19:00	22:00	Online Zoom	
THU	26 Jun-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
FRI	27 Jun-25						
SAT	28 Jun-25	CO	Coaching	10:00	13:00	NTU@One-north	
SUN	29 Jun-25						
MON	30 Jun-25	1.11	Database II	19:00	22:00	Online Zoom	
TUE	1 Jul-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
WED	2 Jul-25	1.12	Cloud Migration	19:00	22:00	Online Zoom	
THU	3 Jul-25		Assignment + Module Quiz + Self Study	19:00	22:00	Self study	
FRI	4 Jul-25						
SAT	5 Jul-25	CO	Coaching	10:00	13:00	NTU@One-north	
SUN	6 Jul-25						
CE2: Cloud Technologies Essentials and Architectural Design			Key Topics: Week 1: Principles in Cloud Architecture Design Week 2: Infrastructure as a Code Week 3: Database as a Service, IAM Week 4: Storage, Deployment as a Service Week 5 and 6: Security, Networking, Function as a Service Week 7: Serverless Architecture Week 8: Secret Management, Cost and Monitoring Week 9 and 10: Cloud Certification Training				
MON	7 Jul-25	2.1	Principles in Cloud Arch. Design	19:00	22:00	Online Zoom	
TUE	8 Jul-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
WED	9 Jul-25	2.2	Infrastructure as Code 1	19:00	22:00	Online Zoom	
THU	10 Jul-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	



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FRI	11 Jul-25						
SAT	12 Jul-25	CO	Coaching	10:00	13:00	NTU@One-north	
SUN	13 Jul-25						
MON	14 Jul-25	2.3	Infrastructure as Code 2	19:00	22:00	Online Zoom	
TUE	15 Jul-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
WED	16 Jul-25	2.4	Infrastructure as Code 3	19:00	22:00	Online Zoom	
THU	17 Jul-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
FRI	18 Jul-25						
SAT	19 Jul-25	CO	Coaching	10:00	13:00	NTU@One-north	
SUN	20 Jul-25						
MON	21 Jul-25	2.5	Database as a Service	19:00	22:00	Online Zoom	
TUE	22 Jul-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
WED	23 Jul-25	2.6	Identity Access Management	19:00	22:00	Online Zoom	
THU	24 Jul-25	CW	Career Workshop #2 - Stand Out: Building a Powerful Professional Brand	19:00	22:00	Online Zoom	
FRI	25 Jul-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
SAT	26 Jul-25	CO	Coaching	10:00	13:00	NTU@One-north	
SUN	27 Jul-25						
MON	28 Jul-25	2.7	Storage	19:00	22:00	Online Zoom	
TUE	29 Jul-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
WED	30 Jul-25	2.8	Deployment as a Service	19:00	22:00	Online Zoom	
THU	31 Jul-25						
FRI	1 Aug-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
SAT	2 Aug-25	CO	Coaching	10:00	13:00	NTU@One-north	
SUN	3 Aug-25						
MON	4 Aug-25	2.9	Security	19:00	22:00	Online Zoom	
TUE	5 Aug-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
WED	6 Aug-25	2.10	Networking 1	19:00	22:00	Online Zoom	
THU	7 Aug-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
FRI	8 Aug-25	CO	Coaching	19:00	22:00	Online Zoom	
SAT	9 Aug-25	PH	National Day				
SUN	10 Aug-25						
MON	11 Aug-25	2.11	Networking 2	19:00	22:00	Online Zoom	
TUE	12 Aug-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
WED	13 Aug-25	2.12	Function as a Service	19:00	22:00	Online Zoom	
THU	14 Aug-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
FRI	15 Aug-25						
SAT	16 Aug-25	CO	Coaching	10:00	13:00	NTU@One-north	
SUN	17 Aug-25						
MON	18 Aug-25	2.13	Serverless Architecture 1	19:00	22:00	Online Zoom	
TUE	19 Aug-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
WED	20 Aug-25	2.14	Serverless Architecture 2	19:00	22:00	Online Zoom	
THU	21 Aug-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
FRI	22 Aug-25						
SAT	23 Aug-25	CO	Coaching	10:00	13:00	NTU@One-north	
SUN	24 Aug-25						
MON	25 Aug-25	2.15	Secret Management	19:00	22:00	Online Zoom	
TUE	26 Aug-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
WED	27 Aug-25	2.16	Cost and Monitoring	19:00	22:00	Online Zoom	
THU	28 Aug-25	CW	Career Workshop #3 - Connecting with Purpose: Networking for Career Transitions	19:00	22:00	Online Zoom	
FRI	29 Aug-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
SAT	30 Aug-25	CO	Coaching	10:00	13:00	NTU@One-north	
SUN	31 Aug-25						
MON	1 Sep-25		Cloud Certification Self-Study	19:00	22:00	Self study	
TUE	2 Sep-25		Cloud Certification Self-Study	19:00	22:00	Self study	
WED	3 Sep-25		Cloud Certification Self-Study	19:00	22:00	Self study	
THU	4 Sep-25		Cloud Certification Self-Study	19:00	22:00	Self study	
FRI	5 Sep-25		Cloud Certification Self-Study	19:00	22:00	Self study	
SAT	6 Sep-25	CO	Coaching	10:00	13:00	NTU@One-north	
SUN	7 Sep-25						
MON	8 Sep-25		Cloud Certification Self-Study	19:00	22:00	Self study	



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TUE	9 Sep-25		Cloud Certification Self-Study	19:00	22:00	Self study	
WED	10 Sep-25		Cloud Certification Self-Study	19:00	22:00	Self study	
THU	11 Sep-25		Cloud Certification Self-Study	19:00	22:00	Self study	
FRI	12 Sep-25		Cloud Certification Self-Study	19:00	22:00	Self study	
SAT	13 Sep-25	CO	Coaching	10:00	13:00	NTU@One-north	
SUN	14 Sep-25						
		CE3: DevSecOps Essentials & System Monitoring Strategies	Key Topics: Week 1: Introduction to DevSecOps Week 2 and 3: Container Orchestration with ECS Week 4: Container Orchestration with EKS Week 5: Monitoring and Logging for Containers Week 6: Package Manager for Containers Week 7: Continuous Integration & Continuous Deployment Week 8: Architecture & Tool Review Week 9 and 10: Project Creation				
MON	15 Sep-25	3.1	Introduction to DevSecOps	19:00	22:00	Online Zoom	
TUE	16 Sep-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
WED	17 Sep-25	3.2	DevSecOps and Workflow	19:00	22:00	Online Zoom	
THU	18 Sep-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
FRI	19 Sep-25						
SAT	20 Sep-25	CO	Coaching	10:00	13:00	NTU@One-north	
SUN	21 Sep-25						
MON	22 Sep-25	3.3	Introduction to Container	19:00	22:00	Online Zoom	
TUE	23 Sep-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
WED	24 Sep-25	3.4	Container Orchestration with ECS Part 1	19:00	22:00	Online Zoom	
THU	25 Sep-25						
FRI	26 Sep-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
SAT	27 Sep-25	CO	Coaching	10:00	13:00	NTU@One-north	
SUN	28 Sep-25						
MON	29 Sep-25	3.5	Container Orchestration with ECS Part 2	19:00	22:00	Online Zoom	
TUE	30 Sep-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
WED	1 Oct-25	3.6	Package Vulnerability Scanning	19:00	22:00	Online Zoom	
THU	2 Oct-25	CW	Career Workshop #4 - Crafting the Perfect Resume: Telling Your Unique Story	19:00	22:00	Online Zoom	
FRI	3 Oct-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
SAT	4 Oct-25	CO	Coaching	10:00	13:00	NTU@One-north	
SUN	5 Oct-25						
MON	6 Oct-25	3.7	Container Orchestration with EKS Part 2	19:00	22:00	Online Zoom	
TUE	7 Oct-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
WED	8 Oct-25	3.8	Container Orchestration with EKS Part 2	19:00	22:00	Online Zoom	
THU	9 Oct-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
FRI	10 Oct-25						
SAT	11 Oct-25	CO	Coaching	10:00	13:00	NTU@One-north	
SUN	12 Oct-25						
MON	13 Oct-25	3.9	Monitoring for Container	19:00	22:00	Online Zoom	
TUE	14 Oct-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
WED	15 Oct-25	3.10	Logging for Container	19:00	22:00	Online Zoom	
THU	16 Oct-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
FRI	17 Oct-25						
SAT	18 Oct-25	CO	Coaching	10:00	13:00	NTU@One-north	
SUN	19 Oct-25						
MON	20 Oct-25	PH	Deepavali				
TUE	21 Oct-25	3.11	Package Manager for Container 1	19:00	22:00	Online Zoom	
WED	22 Oct-25	3.12	Package Manager for Container 2	19:00	22:00	Online Zoom	
THU	23 Oct-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
FRI	24 Oct-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
SAT	25 Oct-25	CO	Coaching	10:00	13:00	NTU@One-north	
SUN	26 Oct-25						
MON	27 Oct-25	3.13	CICD for Container 1	19:00	22:00	Online Zoom	
TUE	28 Oct-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	
WED	29 Oct-25	3.14	CICD for Container 2	19:00	22:00	Online Zoom	
THU	30 Oct-25		Assignment + Quiz + Self Study	19:00	22:00	Self study	



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FRI	31 Oct-25					
SAT	1 Nov-25	CO	Coaching	10:00	13:00	NTU@One-north
SUN	2 Nov-25					
MON	3 Nov-25	3.15	Architecture & Tool Review	19:00	22:00	Online Zoom
TUE	4 Nov-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
WED	5 Nov-25	3.16	Case Study & Capstone Prep	19:00	22:00	Online Zoom
THU	6 Nov-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
FRI	7 Nov-25					
SAT	8 Nov-25	CO	Coaching	10:00	13:00	NTU@One-north
SUN	9 Nov-25					
MON	10 Nov-25		Project	19:00	22:00	Self study
TUE	11 Nov-25		Project	19:00	22:00	Self study
WED	12 Nov-25		Project	19:00	22:00	Self study
THU	13 Nov-25	CW	Career Workshop #5 - Ace the Interview and Beyond: From Preparation to Next Steps	19:00	22:00	Online Zoom
FRI	14 Nov-25		Project	19:00	22:00	Self study
SAT	15 Nov-25		Project	10:00	13:00	Self study
SUN	16 Nov-25					
MON	17 Nov-25		Project	19:00	22:00	Self study
TUE	18 Nov-25		Project	19:00	22:00	Self study
WED	19 Nov-25		Project	19:00	22:00	Self study
THU	20 Nov-25		Project	19:00	22:00	Self study
FRI	21 Nov-25		Project	19:00	22:00	Self study
SAT	22 Nov-25	PP	Presentation	10:00	13:00	NTU@One-north
SUN	23 Nov-25					

- All lecture will be facilitated Virtually unless otherwise stated
- F2F lecture will be held at NTU@one-north campus (off North Buona Vista Road)
- NTU reserves the right to change the date, mode/venue of lesson or cancel class due to unforeseen circumstances