Old Curriculum		New Curriculum	Cumulative Change
5% - Scheduling	*8% - Application Lifecycle Management*	*15% - Workloads & Scheduling*	+2%
• Use label selectors to schedule Pods. • Understand the role of DaemonSets. • Understand how resource limits can affect Pod scheduling. • Understand how to run multiple schedulers and how to configure Pods to use them. • Manually schedule a pod without a scheduler. • Display scheduler events. • Know how to configure the Kubernetes scheduler.	• Understand Deployments and how to perform rolling updates and rollbacks. • Know various ways to configure applications. • Know how to scale applications. • Understand the primitives necessary to create a self-healing application.	• Understand deployments and how to perform rolling update and rollbacks • Use ConfigMaps and Secrets to configure applications • Know how to scale applications • Understand the primitives used to create robust, self-healing, application deployments • Understand how resource limits can affect Pod scheduling • Awareness of manifest management and common templating tools	
5%- Logging/Monitoring	*10% - Troubleshooting*	*30% - Troubleshooting*	15% + 2% = 17%
• Understand how to monitor all cluster components. • Understand how to monitor applications. • Manage cluster component logs. • Manage application logs.	• Troubleshoot application failure • Troubleshoot control plane failure. • Troubleshoot worker node failure. • Troubleshoot networking.	• Evaluate cluster and node logging • Understand how to monitor applications • Manage container stdout & stderr logs • Troubleshoot application failure • Troubleshoot cluster component failure • Troubleshoot networking	

11% - Cluster Maintenance	12% - Installation, Configuration & Validation	25% - Cluster Architecture, Installation & Configuration	17% + 2% = 19%
• Understand Kubernetes cluster upgrade process. • Facilitate operating system upgrades. • Implement backup and restore methodologies.	• Design a Kubernetes cluster. • Install Kubernetes masters and nodes. • Configure secure cluster communications. • Configure a Highly-Available Kubernetes cluster. • Know where to get the Kubernetes release binaries. • Provision underlying infrastructure to deploy a Kubernetes cluster. • Choose a network solution. • Choose your Kubernetes infrastructure configuration • Run end-to-end tests on your cluster • Analyse end-to-end tests results • Run Node end-to-end tests. • Install and use kubeadm to install, configure, and manage Kubernetes clusters	• Manage role based access control (RBAC) • Use Kubeadm to install a basic cluster • Manage a highly-available Kubernetes cluster • Provision underlying infrastructure to deploy a Kubernetes cluster • Perform a version upgrade on a Kubernetes cluster using Kubeadm • Implement etcd backup and restore	

7% - Storage		*10% - Storage*	19% + 3% = 22%
• Understand persistent volumes and know how to create them. • Understand access modes for volumes. • Understand persistent volume claims primitive. • Understand Kubernetes storage objects. • Know how to configure applications with persistent storage.		• Understand storage classes, persistent volumes • Understand volume mode, access modes and reclaim policies for volumes • Understand persistent volume claims primitive • Know how to configure applications with persistent storage	
11% - Networking	*19% - Core Concepts*	*20% - Services & Networking*	22% - 10% = 12%
• Understand the networking configuration on the cluster nodes. • Understand Pod networking concepts. • Understand service networking • Deploy and configure network load balancer. • Know how to use Ingress rules. • Know how to configure and use the cluster DNS. • Understand CNI.	• Understand the Kubernetes API primitives. • Understand the Kubernetes cluster architecture. • Understand Services and other network primitives.	• Understand host networking configuration on the cluster nodes • Understand connectivity between Pods • Understand ClusterIP, NodePort, LoadBalancer service types and endpoints • Know how to use Ingress controllers and Ingress resources • Know how to configure and use CoreDNS • Choose an appropriate container network interface plugin	

12% - Security	Eliminated	12% -12% = 0%
• Know how to configure authentication and authorization. • Understand Kubernetes security primitives. • Know to configure network policies. • Create and manage TLS certificates for cluster components. • Work with images securely. • Define security contexts. • Secure persistent key value store.	With RBAC moved to *Cluster Architecture, Installation & Configuration* TLS certificates will be covered under *Troubleshooting* Network policies must be covered under *Services & Networking*	