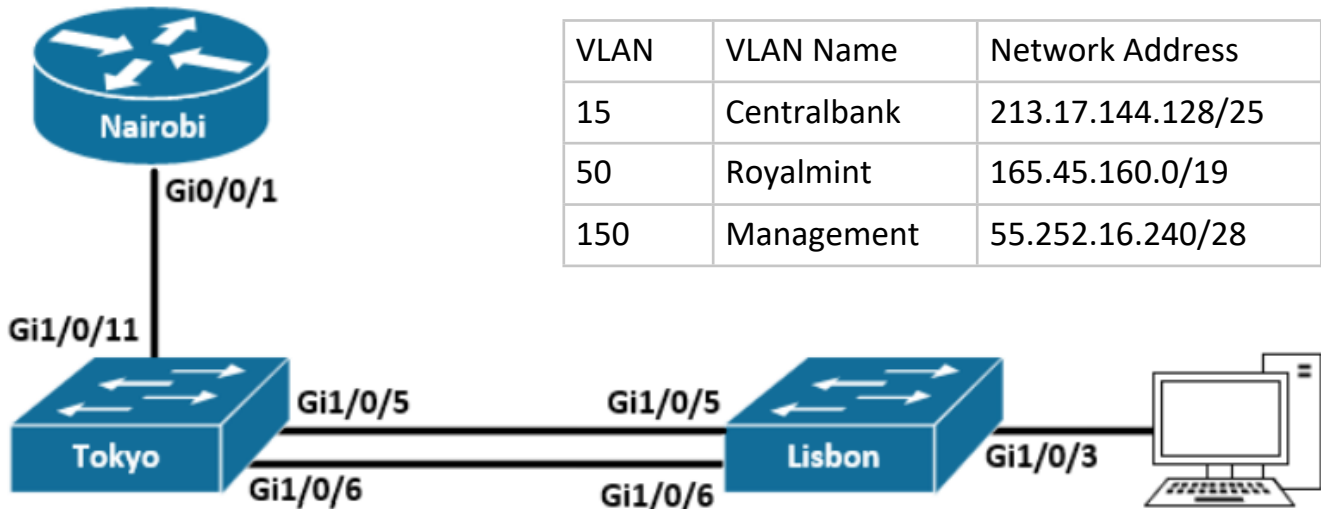# Sample Final Practical Assessment

2020-HS1-TNE10006/TNE60006-Networks and Switching-H1

Topology Diagram and Addressing Table

VLAN	VLAN Name	Network Address
15	Centralbank	213.17.144.128/25
50	Royalmint	165.45.160.0/19
150	Management	55.252.16.240/28

Note: when running this sample assessment on ATC equipment, use **Switch 3** for Tokyo, **Switch 4** for Lisbon, **Router 1** for Nairobi. If on-campus, ask your instructor to connect the **Ethernet PC**.

Task 1: Configure Device Names and MOTD
- All devices must be configured with a **hostname**
- All devices must display a **MOTD** including your student ID

Task 2: Configure VLANs and VLAN membership
- **All VLANs** must exist on **Tokyo** and **Lisbon**
- Ports **gi1/0/1-3** in **Lisbon** must be access ports for the **Centralbank** VLAN
- Ports **gi1/0/11-13** in **Lisbon** must be access ports for the **Royalmint** VLAN
- All **unused** switchports in **Lisbon** must be disabled

Task 3: Configure Router-on-a-Stick
- **Nairobi** must be the default gateway router for all VLANs
- The default gateway IP for all VLANs must be the **last usable** IP
- You must follow **best practices** for sub-interface ID configuration
- Configure **Loopback0** on **Nairobi** with IP address **53.15.30.33/29**

Task 4: Configure Switch Management
- The management IP on **Tokyo** must be the **second-last usable** IP
- The management IP on **Lisbon** must be the **third-last usable** IP
- Configure **SSH** access on **Lisbon**
- Domain name: **ccna.lab**
- User account details: **Username: cisco**, **Password: cisco**

Task 5: Fine-tune STP
- **Tokyo** must be the root bridge for the **Royalmint** VLAN
- **Lisbon** must be the root bridge for the **Centralbank** VLAN
- Access ports in **Lisbon** must be **portfast** ports by default

Task 6: Configure Port-Security
- Gi1/0/3 in Lisbon must be configured with port-security
- Violation mode must be **protect**
- MAC address learning must be **sticky**
- **Maximum** allowed MAC addresses must be set to **2**

Task 7: Configure EtherChannel
- The links between **Tokyo** and **Lisbon** must be bundled
- The **native VLAN** must be the **Management** VLAN
- Use **LACP** as the link aggregation protocol

Task 8: Additional Settings
- Configure **descriptions** on all interfaces in **Nairobi**
- Configure **synchronous logging** in Lisbon and Tokyo