

Skill Exam Computer Networks I (CCNA 1 and 2)

All laborations in the course are very important, and the Skill Exam is a practical test that will cover everything you have learned in the course. It is an individual test with the lab equipment, and you will get an exercise that you need to cable and configure without any help. To be able to manage the Skill Exam you need to be familiar with the following commands and when you should use them:

Basic Router Configuration:

Hostname and privileged password

```
Router(config)#hostname [name of router]
```

```
Router(config)#enable secret [password]
```

```
Router(config)#enable password [password]
```

Console and virtual terminal password

```
Router(config)#line consol 0
```

```
Router(config-line)#password [password]
```

```
Router(config-line)#login
```

```
Router(config)#line vty 0 4
```

```
Router(config-line)#password [password]
```

```
Router(config-line)#login
```

Interface configuration:

FastEthernet 0/0

```
Router(config)#interface fastEthernet 0/0
```

```
Router(config-if)#ip address [address of this interface] [subnet mask of this interface]
```

```
Router(config-if)#no shutdown
```

Serial 0/0/0

```
Router(config)#interface serial 0/0/0
```

```
Router(config-if)#ip address [address of this interface] [subnet mask of this interface]
```

```
Router(config-if)#clock rate 64000 (only on DCE interface)
```

```
Router(config-if)#no shutdown
```

Routing Protocols:

RIP

```
Router(config)#router rip
```

```
Router(config-router)#version 2 (only if you use RIP v2)
```

```
Router(config-router)#network [ip address of a directly connected network]
```

EIGRP

```
Router(config)#router eigrp [AS-number]
```

```
Router(config-router)#network [ip address of directly connected network] [optional, network mask]
```

OSPF

```
Router(config)#router ospf [process ID]
```

```
Router(config-router)#network [ip address of directly connected network] [wildcard mask] area [area number]
```

Static routing:

```
Router(config)#ip route [destination IP] [mask] [exit interface or ip address for next hop]
```

Default routing:

```
Router(config)#ip route 0.0.0.0 0.0.0.0 [exit interface or ip address for next hop]
```

The Skill exam may include other commands. The commands above are only to be able to pass the basic part of the configuration. You have to be familiar with the cabling of a topology (crossover, straight-through, console, serial cables) and the TCP/IP settings on a PC as well. There will be some written questions in the exam, which will cover the most important topics you need to know to be able to administer a network. It can be subnetting, IP addressing of a network, how you read the information in the routing table, differences between routing protocols etc.