

## PLC 220 Hands-On Assessment Module 2

Student Name:	_ N#	Date:
This hands-on assessment requires that each stu	ident success	sfully demonstrates each of these
tasks to the instructor's satisfaction. There is n	o grade for tl	nis assessment.
Prior to taking this assessment, the student mus	t pass (minin	num of 80%) the Knowledge and
Application Assessment.	• ,	,
The student cannot proceed to the HOA for the	next module	without completing this HOA

## **Equipment Required:**

- ControlLogix Demo with processor Local Chassis
- ControlLogix Demo without processor-Remote Chassis
- Twisted pair cables
- Computer with Studio 5000, BOOTP/DHCP Server and RSLinx software
- Ethernet Switch



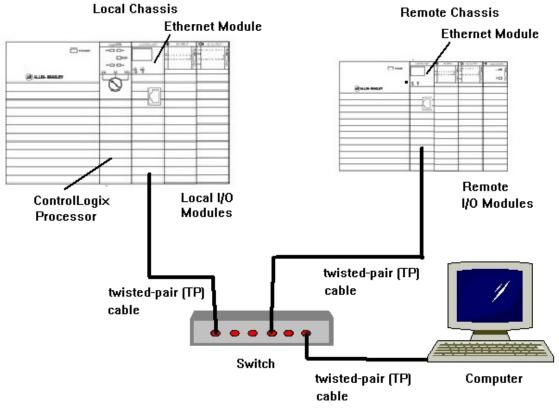


Figure 1-A. A local and remote chassis connected by Ethernet. Set-up hardware as shown in Figure 1-A

 1. Determine the following computer information
IP Address:
Subnet Mask:
Ethernet Address:
2. Set the Ethernet module in the Local Chassis to default setting.
Using the BOOTP/DHCP Server assign an IP Address and Subnet Mask that will work on the same network as the computer to the Ethernet Module.
Record the following Ethernet Module information
IP Address:
Subnet Mask:
Ethernet Address:



Configure the Ethernet Module to Static Set-up

3. Set the Ethernet module in the Remote Chassis to default setting.
Using the BOOTP/DHCP Server assign an IP Address and Subnet Mask
that will work on the same network as the computer to the Ethernet Module.
Record the following Ethernet Module information
IP Address:
Subnet Mask:
Ethernet Address:
Configure the Ethernet Module to Static Set-up
4. Verify connections using PING utility
5. Using Studio 5000 software develop a Project Files that will:
Name the Ethernet Module in the Local Chassis as ENET_Local
<ul> <li>Name the Ethernet Module in the Remote Chassis as ENET Remote</li> </ul>
• Name the I/O Module in the Local Chassis based on slot location, i.e. Slot 2
etc.
• Name the I/O Module in the Remote Chassis based on remote slot location,
i e Remote Slot 2 etc

• SS4 switch on the Remote Demo Board will turn ON/OFF PL0 on the Local Demo Board

• SS7 switch on the Local Demo board will turn ON/OFF PL5 on the Remote

- Save the Project File as HOA\_Module2.ACD
- Download Project File and verify operation

Demo Board



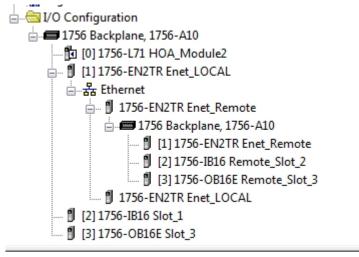


Figure 2-A I/O Configuration for HOA Project File



Figure 2-A
Ladder Logic for HOA Project Files

## **DOL DISCLAIMER:**

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