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Smart Devices for Industry 4.0

COURSE MATERIALS

Overall Materials

The table below presents the materials necessary for completion of the course. See Table 2 on the next page for a breakdown of materials by course section and hardware bundle.

Table 1. All Course Materials

		Quantity	Note
Hardware	Intelitek IO-Link Proximity and Distance Lab Kit	1	
	Intelitek IO-Link Identification Lab Kit	1	
Software	LR Device or Moneo Configure		For basic device configuration
	Moneo		For remote monitoring
	Ethernet Configuration Tool (Hilscher)		
Required Hardware for the Additional Content Section	JMTS Double-Sided Panel		
	PLC Module	1	With Siemens S7-1200 or Allen-Bradley CompactLogix
	Power Supply Module	1	
	HMI Module	1	
	Electrical connectors		Banana plugs
	Ethernet cables		
	USB A to B cable	1	For configuring the CompactLogix's IP address
Required Software for the Additional Content Section	Siemens TIA Portal		If using Siemens system
	Studio 5000 Logix Designer and Vie Designer	èW	If using Allen-Bradley system
Other	Personal Computer		
	Ethernet switch		





Materials by Section/Bundle

This table breaks down the materials requirements by course section and hardware bundle:

Table 2. Materials by Section/Bundle

Course Section	Bundle	Main Bundle Components	Bundle Prerequisites
Activities 1-9	IO-Link Proximity and Distance Lab Kit	IO-Link master	N/A
		Photoelectric sensor	
		Ultrasonic sensor	
		 Inductive sensor 	
		LR Device or Moneo	
		Configure software	
		 Test materials 	
Activity 10	Cloud Monitoring Kit	 Moneo software 	 IO-Link Proximity and
	<u> </u>		Distance Lab Kit
Activities 11-12	IO-Link Identification Lab Kit	 RFID read/write head 	 IO-Link Proximity and
		RFID tags	Distance Lab Kit
		 Stack light (Signal lamp) 	
Activity 13	IO-link PLC Kit	PLC module	IO-Link Proximity and
-		Power module	Distance Lab Kit
		HMI module	 IO-Link Identification
		 PLC control software 	Lab Kit