

Training Course

Embedded Computing Basics (Linux, Python) (IIoT-MIL1)	
Objective	After this course, participants will be able to perform basic configuration and management steps on Moxa embedded computers running Moxa Industrial Linux. This capability will be used throughout all other IIoT courses of Moxa Technical College.
Prerequisites	<p>Understanding of Ethernet Communication (Networks/IP Address) as in MTC course IES-F1</p> <p>Basic Linux understanding and Linux command line knowledge</p> <p>Basic Python knowledge</p> <p>Linux & Hardware manual and Quick Installation Guide</p>
Content	<p>This Moxa Industrial Linux self-tutorial course shall provide a good understanding of Moxa's ARM based embedded computers and how to maintain and configure various features. It is based on five Modules, each of which will cover a specific aspect.</p> <p>Module 1 - Power-up and Firmware Upgrade</p> <p>Module 2 - Installing third party software via Debian Linux tools apt</p> <p>Module 3 - Using MQTT Broker to publish/subscribe data with python</p> <p>Module 4 - Configuring Cellular / Wifi Modem (Optional)</p> <p>Module 5 - Backup/Restore Customized firmware</p> <p>Although this course is mainly designed for ARM based embedded computer, most principles may also apply to Moxa x86 based embedded computers running Debian Linux.</p>
Duration	1 Day
Certification	MTC IIoT