Install MPLAB IDE Software

1. Download the MPLAB8.91 from

http://www.microchip.com/stellent/idcplg?IdcService=SS_GET_PAGE&nodeId=2115

| File Luit View Favorites | Tools Help | | | | | |
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| S DevToolsParts | | | | 🚰 🔻 🔊 | 🔻 🖃 🖷 🔻 Page 🕇 | Safety |
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| | MPLAB IDE X v1.51 | MPLAB IDE X v1.5 | 1 M | IPLAB IDE X v1.51 | | |
| | MPLAB IDE X v1.60 | MPLAB IDE X v1.6 | 0 M | IPLAB IDE X v1.60 | | |
| | MPLAB IDE X v1.70 | MPLAB IDE X v1.7 | 0 M | IPLAB IDE X v1.70 | | |
| | MPLAB IDE X v1.80 | MPLAB IDE X v1.8 | 0 M | IPLAB IDE X v1.80 | | |
| | MPLAB IDE X v1.85 | MPLAB IDE X v1.8 | 5 M | IPLAB IDE X v1.85 | | |
| | MPLAB IDE X v1.90 | MPLAB IDE X v1.9 | 0 M | IPLAB IDE X v1.90 | | |
| | MPLABIDE X v1.95 | MPLAB IDE X v1.9 | 5 M | IPLABIDE X v1.95 | | |
| | MPLAD IDE X V2.00 | MPLABIDE X V2.0 | Arabia | IFLAD IDE X V2.00 | | |
| | 16-bit Windows | 32-bit Windows | Archive | S 2-bit Windows | | |
| | MPLAB IDE v5.40 | MPLABIDE v6 10 | M | | | |
| | MPLAB IDE v5.70.40 | MPLAB IDE v6.20 | M | IPLAB IDE v7.10 | | |
| | III BIBIBE TO TO TO | MPLAB IDE v6.30 | P | atch for MPLAB IDE v7 | 10 | |
| | | MPLAB IDE v6.40 | M | IPLAB IDE v7.20 | 22.50 | |
| | | MPLAB IDE v6.50 | M | IPLAB IDE v7.30 | | |
| | | MPLAB IDE v6.60 | M | IPLAB IDE v7.31 | | |
| | | | M | IPLAB IDE v7.40 | | |
| | | | M | IPLAB IDE v7.50 | | |
| | | | MPLA | AB IDE v8.50 | | |
| | | | MDL / | ABIDE V8 53 | | |
| | | | MPLA | | | |
| | | | MPLA | AB IDE V8.56 | | |
| | | | MPLA | AB IDE v8.60 | | |
| | | | MPLA | AB IDE v8.63 | | |
| | | | MPL 4 | AB IDE v8 66 | | |
| | | | MDL | | | |
| | | | WPLA | AD IDE VO.70 | | |
| | | | MPLA | AB IDE v8.73a | | |
| | | | MPLA | AB IDE v8.76 | | |
| | | | MPLA | AB IDE v8.80 | | |
| | | | MDL | ABIDE V8.83 | | |
| | | | MDL | | | |
| | | | MPLA | AB IDE V8.84 | | |
| | | | MPLA | AB IDE v8.85 | | |
| | | | MPLA | AB IDE v8.86 | | |
| | | | MPL 4 | AB IDE v8 87 | | |
| | | | MDL | | | |
| | | | MPLA | AD IDE V8.88 | | |
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| | | | MPLA | AD IDE v0.90 | | |
| | \subset | | MPLA | AB IDE v8 91 | | > |
| | | | | | | |

2. You can download the XC8 Compiler at the same site as:

| | Language Tool Archives | | | | |
|--------------------|------------------------|---------------|--|--|--|
| MPLAB XC8 | MPLAB XC16 | MPLAB XC32 | | | |
| v1.00 (WIN) | v1.00 (WIN) | v1.00 (WIN) | | | |
| v1.00 (Linux) | v1.00 (Linux) | v1.00 (Linux) | | | |
| v1.00 (OSX) | v1.00 (OSX) | v1.00 (OSX) | | | |
| <u>v1.01 (WIN)</u> | v1.10 (WIN) | v1.10 (WIN) | | | |
| v1.01 (Linux) | v1.10 (Linux) | v1.10 (Linux) | | | |
| v1.01 (OSX) | v1.10 (OSX) | v1.11 (OSX) | | | |
| v1.10 (WIN) | v1.11 (WIN) | v1.11 (WIN) | | | |
| v1.10 (Linux) | v1.11 (Linux) | v1.11 (Linux) | | | |
| v1.10 (OSX) | v1.11 (OSX) | v1.20 (OSX) | | | |
| <u>v1.11 (WIN)</u> | v1.20 (WIN) | v1.20 (WIN) | | | |
| v1.11 (Linux) | v1.20 (Linux) | v1.20 (Linux) | | | |
| v1.11 (OSX) | v1.20 (OSX) | v1.21 (OSX) | | | |
| <u>v1.12 (OSX)</u> | | v1.21 (WIN) | | | |
| v1.12 (WIN) | | v1.21 (Linux) | | | |
| v1.12 (Linux) | | v1.22 (OSX) | | | |
| v1 20 (OSX) | | v1.22 (WIN) | | | |
| <u>v1.20 (WIN)</u> | > | v1.22 (Linux) | | | |
| v1.21 (Linux) | | v1.30 (OSX) | | | |
| v1.21 (OSX) | | v1.30 (Linux) | | | |
| v1.21 (WIN) | | v1.30 (WIN) | | | |

Note: Both the MPLAB IDE 8.91 and XC8 are also available on the workshop Moodle server at: <u>www.ucdistancetraining.org</u> then select Pre Workshop preparations or you can download it from www.ucdistancetraining.odu.edu

3. After you downloading the MPLAB IDE, double click the setup file to install the software.

| Name | Date modified | Туре | Size |
|---------------------|-------------------|--------------------|------------|
| 1 Data1 | 5/2/2013 5:10 PM | WinZip File | 108,331 KB |
| ISSetup.dll | 5/2/2013 4:43 PM | Application extens | 2,056 KB |
| 🕼 MPLAB Tools v8.91 | 5/2/2013 5:10 PM | Windows Installer | 3,035 KB |
| MPLAB_IDE_8_91 | 5/14/2013 10:18 A | WinZip File | 113,630 KB |
| a mplabceri | 7/17/2009 8:36 PM | Bitmap image | 193 KB |
| setup | 5/2/2013 5:10 PM | Application | 3,783 KB |

3. Follow the installation instruction and click Next.



4. After selecting Next and then accepting the license agreement. Select Complete installation, the Next.....Next.







| MPLAB® Tools | | |
|--------------|--|--------|
| | MPLAB® Tools Application Maestro License | ROCHIP |
| | MAESTRO [™] SOFTWARE LICENSE AGREEMENT YOU ARE PERMITTED TO ACCESS THE SOFTWARE AND DOCUMENTATION ONLY IF YOU ACCEPT THE TERMS AND CONDITIONS OF MICROCHIP'S "NON-EXCLUSIVE LICENSE AGREEMENT FOR MAESTRO [™] SOFTWARE" (HEREAFTER, THE "AGREEMENT"). | |
| | IF YOU AGREE TO THE TERMS OF THE AGREEMENT, INDICATE a) accept the terms of the license agreement True of accept the terms of the license agreement True of accept the terms of the license agreement | |
| | < Back Next> C | ancel |



5. After selecting Next, Next.....Next the setup will lead to the following screen the software installation begins.....

| MPLAB® Tools | | |
|--------------|--|-------------|
| | MPLAB® Tools Setup Status | 💌 Міскоснір |
| | MPLAB Tools v8.91 is configuring your new software installation. Validating install | |
| | | Cancel |

| Files in Use | |
|--|--------------------------------------|
| Some files that need to be updated are currently in use. | MICROCHI |
| The following applications are using files that need to be updated | I by this setup. |
| 1: 2248 2: NI Configuration Manager 3: 3264 4: National Instrumen | ts Variable Engine 5: 4580 6: NI PXI |
| | |
| Automatically close and attempt to restart applications | |
| Do not close applications. (A reboot will be required.) | |
| InstallShield | \frown |
| | OK Cancel |
| | |
| | |
| | |

6. It will take several minutes for the installation to complete and you will see this Window, then click Next again to complete the process:



7. If you want to view the release notes on the software, click and view, otherwise simple close the window and continue.....that will conclude the MPLAB IDE installation and you can verify it on your desktop window

| Release Notes | | Driver Installation and Repair |
|---|---------|--|
| MPLAB PM3 Release Notes MPLAB REAL ICE Emulator Release Notes MPLAB SIM Release Notes MPLINK Linker Release Notes PICKIt 1 Release Notes PICKIt 2 Release Notes PICKIT 3 Release Notes PICSTART Plus Release Notes PRO MATE II Release Notes Third Party Tools Release Notes | | MPLAB IDE 64-Bit USB Device Drivers Installation |
| | View Se | lected File |



Install C Complier

HI TECH Universal Toolsuite Ver 1.37 (PBLAB Plugin)

- 1. Download the HI TECH Universal Toolsuite from <u>www.ucdistancetraining.org</u> then select Pre Workshop Preparations
- 2. After downloading the software, double clicks on the UniversalToolsuite-1.37

| Name | Date modified | Туре | Size |
|-------------------------|-------------------|--------------------|------------|
| ٵ Data1 | 5/2/2013 5:10 PM | WinZip File | 108,331 KB |
| ISSetup.dll | 5/2/2013 4:43 PM | Application extens | 2,056 KB |
| 🞼 MPLAB Tools v8.91 | 5/2/2013 5:10 PM | Windows Installer | 3,035 KB |
| MPLAB_IDE_8_91 | 5/14/2013 10:18 A | WinZip File | 113,630 KB |
| 🛃 mplabcert | 7/17/2009 8:36 PM | Bitmap image | 193 KB |
| 😪 setup | 5/2/2013 5:10 PM | Application | 3,783 KB |
| LoiversalToolsuite-1.37 | 5/14/2013 10:54 A | Application | 1,090 KB |

3. Click on Next to start the installation:



4. Check on the path of the software, then click on Next to install:

| talling HI-TECH Universal Toolsuite plug | in for MPLAB |
|--|---|
| <u></u> | κ. ¢. |
| | |
| Please choose the folder to inst | all into, then click Next to complete the installation. |
| | |
| | |
| | |
| | |
| 6.3.3.3.3.3.3.3 | |
| C:\Program Files (x86)\Microchip\MPLA | AB Plugin for HI-TECH C\1.37 |
| Space required: 3.1 MB | Space available: 38273 MB |
| On-line help | Solution of the sector of t |
| | |

5. It only takes a few seconds to install and click on Finish to complete.



6. To check the C Compiler installation, Run MPLAB Ver. 8.91, under main menu, select Project, then click on "Set Language Tool Locations..."

| Project Wizard | 📑 🚅 🖬 🐘 🐘 🛈 | Checksum:0x3bff | |
|---|-------------------|-----------------|--|
| New Open Close Set Artive Project | rol Find in Files |] | |
| Quickbuild (no .asm file) | | | |
| Package in .zip Clean Build Configuration Build Options | • | | |
| Save Project Save Project As | | | |
| Add Files to Project Add New File to Project Remove File From Project | , | | |
| Version Control | | | |
| | | | |
| Files *? Symbols | | | |
| Files #\$ Symbols | | | |

7. If you can see the HI TECH Toolsuite as following that means the C Compiler is ready:

| MPLAB IDE v8.91 | Non Science 1 | MALINE DE MILLING MILLE | |
|---|---|-------------------------|---|
| File Edit View Project Debugger Program | mmer Tools Configure Window Help | ρ | |
| D 📽 🖬 🖇 🐂 📾 🚳 AA 🚧 🚚 🛼 💡 | | Checksum: 0x3bff | |
| Buid | Itput I I I S Version Control Find in Files Set Language Tool Locations Begistered Tools | | - |
| Untitled Workspace | B Knudsen Data CC8E Byte Craft Assembler & C Compiler Dec S C Compiler for PICTUTION WAR HETECH Universal ToolSuite Microchip ASM16 Toolsuite Microchip C17 Toolsuite Microchip C18 Toolsuite Microchip PIC32 C-Compiler Toolsuit | IR/24/dsPIC30/dsPIC33 | |
| | Location | Browse | |
| | Help | OK Cancel Apply | |

Install PIC BASIC Pro Complier

From: microEngineering Labs

Note: If you are going to use BASIC compiler for this distance training workshop, please download this PIC BASIC Pro.

1. Go to <u>http://melabs.com/</u> to download the free trial version of the BASIC compiler:



2. Select the PBP3 without MPLAB option:



3. Click on Next to start the installation of the PIC BASIC Pro:



4. Select on the software agreement and Click on Next

| License Agreement Please read the following important information before continuing. | n |
|---|--------|
| Please read the following License Agreement. You must accept the terms of the agreement before continuing with the installation. | iis |
| This software and accompanying documentation is copyright (c) microEngineering Labs, Inc. It is commercial software. It is not freeware or shareware. microEngineering Labs, Inc. ("the Company") is willing to license PICBASIC PR (tm) Compiler ("the Software") to the purchaser of the software ("Licensee") only on the condition that Licensee accepts all of the terms and conditions set forth below. By installing and/or using this software, Licensee is agreeing to bebound by these terms and conditions. | 20 |
| Commercial Use: | - |
| I accept the agreement I do not accept the agreement | |
| < Back Next > | Cancel |

5. Check on the path on the software instalation, then Click on Next:

| Setup - PBP3 | |
|--|--------|
| Select Destination Location Where should PBP3 be installed? | me |
| Setup will install PBP3 into the following folder. | |
| To continue, click Next. If you would like to select a different folder, c | Browse |
| | |
| | |
| At least 35.5 MB of free disk space is required | |
| | |
| < Back Next > | Cancel |

6. Choose PBP3 start from MPLAB, then Click Next:

| Setup - PBP3 |
|--|
| Select Start Menu Folder Where should Setup place the program's shortcuts? |
| Setup will create the program's shortcuts in the following Start Menu folder. |
| To continue, click Next. If you would like to select a different folder, click Browse. |
| PBP3 from melabs Browse |
| |
| |
| |
| |
| Don't create a Start Menu folder |
| < Back Next > Cancel |

7. Click on the Install the software will begin its instalation:

| Rea | p - PBP3 dy to Install etup is now ready to begin installing PBP3 on your computer. | n): |
|-----|---|--------|
| 0 | lick Install to continue with the installation, or click Back if you want to review or hange any settings. | 1 |
| 7 | Destination location: C:\PBP3 | * |
| | Start Menu folder: PBP3 from melabs | |
| | | Ŧ |
| | ٠ | |
| | < Back Install | Cancel |



8. Click on the Finish to complete the PIC BASIC Pro installation:



9. Click on Next to start the Micro Code Studio Setup Wizard:



10. Select on the software agreement and Click on Next



11. Check on the path on the software instalation, then Click on Next:



| Setup - MicroCode Studio (MCSX) | X |
|--|--------|
| Installing Please wait while Setup installs MicroCode Studio (MCSX) on your computer. | m |
| Extracting files C:\Program Files (x86)\Mecanique\MCSX\ICDModels\18F1220.icd | |
| | |
| | |
| | |
| | |
| | Cancel |

12. Click on the Finish to complete MicroCode Studio installation:



13. To check the PIC BASIC Pro Compiler installation, Run MPLAB Ver. 8.91, under main menu, select Project, then click on "Set Language Tool Locations..."

| 📽 🖬 👗 🕯 | Project Wizard | d' 📾 🖬 🖷 🛈 | Checksum: 0x3bff | |
|---------|---|---------------------|------------------|--|
| | New Open Close Set Active Project | , rol Find in Files | | |
| | Quickbuild (no .asm file) | | | |
| | Package in .zip Clean Build Configuration Build Options | ; | | |
| | Save Project | | c | |
| | Add Files Project Add Alex File to Project Remove File from Project Setect Language Tool State Set Language Tool Locations Content Control | | | |
| | Files * Symbols | | | |
| | | | | |
| | | | | |
| | | | | |

14. If you can see the HI TECH Toolsuite as following that means the PIC BASIC Pro Compiler is ready:

| File Edit View Project Debugger Programmer Tools Configure Window Help Created and the set of the | MPLAB IDE v8.91 | Non in Italian MPUB C1 with | Caref Brit Compile, Michael Mont |
|---|--|--|----------------------------------|
| Image: | File Edit View Project Debugger Progra | mmer Tools Configure Window Help | |
| Image: Set Language Tool Locations Set Language Tool Locations Registered Tools Image: Image: Set Language Tool Locations Image: Image: Set Language Tool Locations Registered Tools Image: Image: Set Language Tool Locations Image: | □☞▣│४ҹ≋│₫₳⊯₽嗎१ | | Checksum: 0x3bff |
| Help OK Cancel Apply | Untitled Workspace | utput Image: Set Language Tool Locations Registered Tools HI-TECH Universal ToolSuite HAR PIC18 Microchip ASM16 ToolSuite Microchip ASM16 ToolSuite Microchip C17 ToolSuite Microchip C18 ToolSuite Microchip C13 ToolSuite Microchip C32 C-Compiler ToolSuite Microchip PIC32 C-Compiler ToolSuite Microchip NC32 C-Compiler ToolSuite | |
| Help OK Cancel Apply | | | Browse |
| | | Help | OK Cancel Apply |