On Windows 7, you can use my own PowerShell script I published on TechNet Script Gallery: Self-signed certificate generator (PowerShell). The usage can be something like this:

```
New-SelfsignedCertificateEx -Subject "CN=Test Code Signing" `
-EKU "Code Signing" `
-KeySpec "Signature" `
-KeyUsage "DigitalSignature" `
-FriendlyName "Test code signing"
-NotAfter $([datetime]::now.AddYears(5))
```

(very first example).

Starting with Windows 8, you can use built-in `certreq.exe` tool to generate the certificate. Create INF file with cert configuration, for example:

```
[NewRequest]
Subject = "CN=Test Code Signing"
KeyLength = 2048
KeyAlgorithm = RSA
ProviderName = "Microsoft Enhanced RSA and AES Cryptographic Provider"
MachineKeySet = false
Exportable = true
KeySpec = 2
KeyUsage = 0x80
RequestType = Cert
[EnhancedKeyUsageExtension]
OID=1.3.6.1.5.5.7.3.3 ; Code signing
```

and then run the following command:

```
Certreq –new path\inffilename.inf
```

This will generate and install the certificate to current user's certificate store.

Starting with Windows 10, you can use built-in PowerShell cmdlet as follows:

```
New-SelfSignedCertificate -CertStoreLocation cert:\currentuser\my `
-Subject "CN=Test Code Signing" `
-KeyAlgorithm RSA `
-KeyLength 2048 `
-Provider "Microsoft Enhanced RSA and AES Cryptographic Provider" `
-KeyExportPolicy Exportable `
-KeyUsage DigitalSignature `
-Type CodeSigningCert
```

However, self-signed certificate usage for code signing in production environments is dsicouraged. You should use them in test environments only.

For private usage (within organization only), you should check if company already owns PKI infrastructure and contact appropriate personnel to receive company-approved code signing certificate.

For public scripts (you are going to distribute along with software packages, or deliver scripts to your customers), I would suggest to purchase code signing from globally trusted commercial CA provider.

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edited Jan 6 at 15:14

answered Jan 6 at 12:12

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