



# SSL Certificate Not Trusted Error - For Server

## Administrators

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## SSL Certificate Not Trusted Error

**This Connection is Untrusted**

You have asked Firefox to connect securely to [\[redacted\].its.calpoly.edu](#), but we can't confirm that your connection is secure.

Normally, when you try to connect securely, sites will present trusted identification to prove that you are going to the right place. However, this site's identity can't be verified.

**What Should I Do?**

If you usually connect to this site without problems, this error could mean that someone is trying to impersonate the site, and you shouldn't continue.

[Get me out of here!](#)

**Technical Details**

[\[redacted\].its.calpoly.edu](#) uses an invalid security certificate.

The certificate is not trusted because the issuer certificate is unknown.

(Error code: sec\_error\_unknown\_issuer)

**I Understand the Risks**

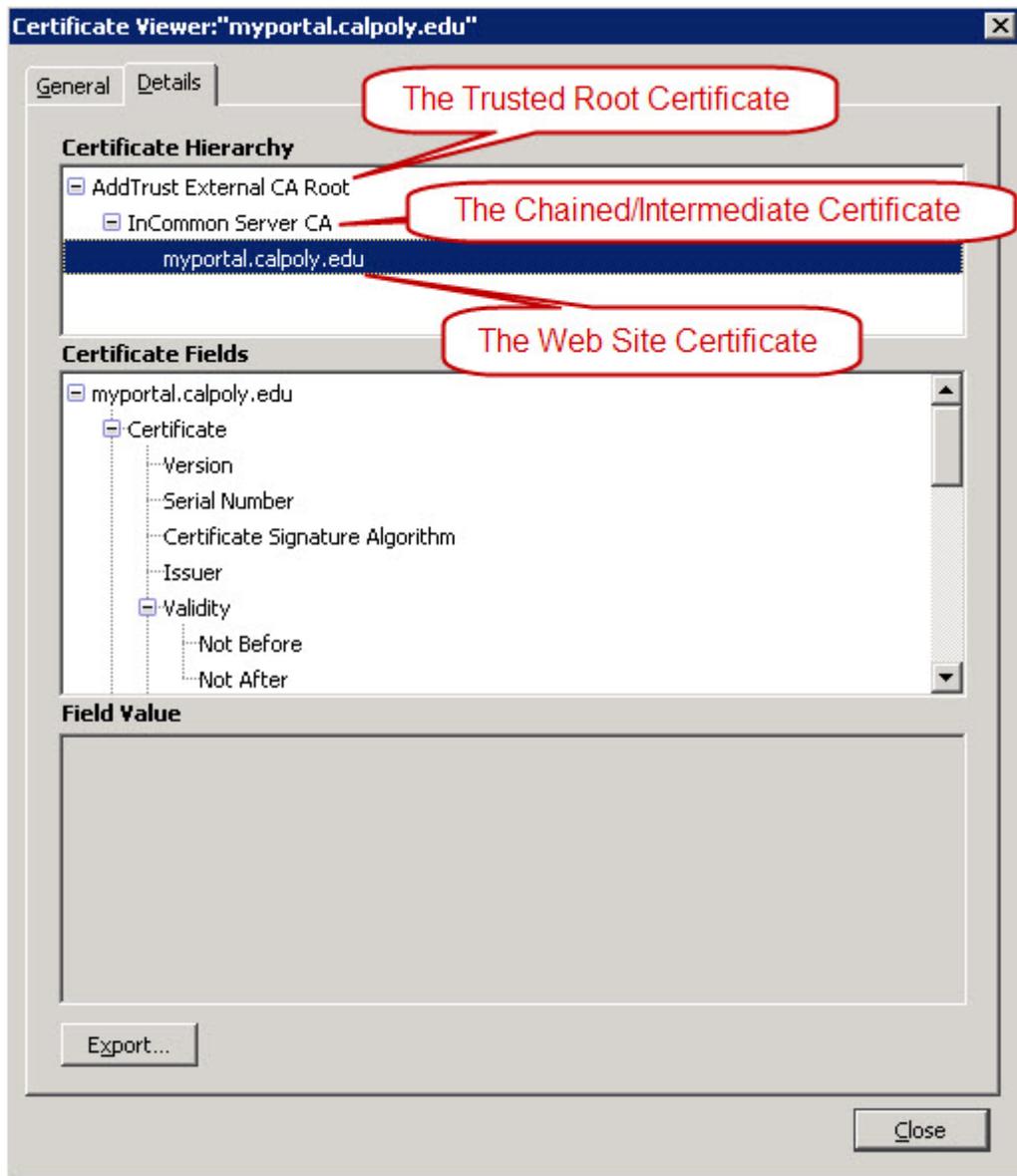
The SSL certificate not trusted error indicates that the SSL certificate is not signed or approved by a company that the browser trusts. This occurs most often for one of the following reasons:

1. The web site is using a self-signed certificate. Self-signed certificates can be generated for free but they don't provide the trust a commercial certificate authority can. You should not tell users to trust your self-signed certificate because we do not want users to feel this is good practice. A man-in-the-middle attack will look the same to a user.
2. The web site is using a free SSL Certificate. Free SSL Certificates are issued by a couple of free certificate authorities but users must follow a complex process to import the Root Certificate into their browser.
3. The web site is using an SSL certificate from a trusted certificate authority but it is missing a chain/intermediate certificate. Most trusted certificate authorities require that you install at least one other intermediate/chain certificate on the server to link your certificate up to a trusted source.

To address issues #1 and #2, Cal Poly now provides SSL certificates from a trusted certificate authority (Comodo) at no cost for Cal Poly sites. More information on this service can be found on the Operations and Production Support web site <http://ops.calpoly.edu>

</ssl.html>.

Issue #3 is a very common one. For example, if the ITS installed their server certificate for myportal.calpoly.edu without installing the "InCommon Server CA" intermediate certificate, a web browser would give the certificate not trusted error.



Occasionally, certain browsers will give this error when others do not. This is because browsers can automatically download intermediate certificates the first time you visit a site that is properly configured. Once the intermediate certificate is installed, the browser will work on all sites using that intermediate certificate without getting this error, including a site that does not provide the intermediate certificate itself.

## How to check if my server is properly configured

Because the Cal Poly Portal is properly configured, many browsers will already have the intermediate certificate installed. This makes testing a newly installed SSL certificate difficult. You can verify whether the certificate and the appropriate intermediate certificate are installed correctly by using the following process.

### Process to check if a server is properly configured

1. This process requires openssl



- [Comodo Knowledge Base: https://support.comodo.com/index.php?\\_m=knowledgebase&\\_a=view&parentcategoryid=95&pcid=1&nav=0,1](https://support.comodo.com/index.php?_m=knowledgebase&_a=view&parentcategoryid=95&pcid=1&nav=0,1)

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