

# PUBLIC KEY CERTIFICATES

SUMMERY	
Matched Branch:	0
Partially Matched Branch:	2
Mismatched Branch:	5
Extra Branch:	14
Total Match:	30.0 %
Concept Match:	33.33 %
Link. Phr. Match:	0.0 %
Misconception:	100.0 %
Hierarchy Match:	9.52 %

Grade: 13.14%

key steps  
summarized  
as

Client may provide the signed certificate to any other user

User software (client) creates a pair of keys: one public and one private

Client prepares an unsigned certificate that includes the user ID and code of public key

User provides the unsigned certificate to a Certificate Authority in some secure manner

Any user may verify for certificate validity by calculating the hash code of certificate without the signature, decrypting the signature using the Certificate Authority's known public key, comparing the result for a match

Certificate Authority creates a signature using a hash function to calculate the hash code of the unsigned certificate, and encrypts the hash code with the Certificate Authority's private key

Certificate Authority attaches the signature to the unsigned certificate to create a signed certificate and Certificate Authority returns the signed certificate to client