

Certification: Assessment Prototype



1. User takes multiple-choice test online (any time!)
 - ▶ A combination of JavaScript and a web service
 - ▶ System selects number of questions randomly from a pool
 - The questions are managed with rigorous license agreement
 - ▶ System draws 4-5 responses from 10 possible responses (some randomized)
 2. Choices are submitted to the web server
 3. *Manual approval* of the result
 4. Automatic creation of certificate and returned by email
 - ▶ Permanent computer-verifiable proof that skill is created
 - Return a text version with GPG signature
 - Return a link that can be verified on hpc-certification.org
- Privacy: minimize information stored on servers, keep some for statistics
 - Includes some measure to prevent cheating and brute forcing (e.g., delay)

Certification: Certificate



Text representation

```
-----BEGIN PGP SIGNED MESSAGE-----  
Hash: SHA512  
HPC Certification Forum Certificate  
This text confirms that "Jane Doe" has  
successfully obtained the certificate  
"HPC driving license" (id: 1) at 02/2019.  
Verification URL: https://hpc-certification.org/[...]  
-----BEGIN PGP SIGNATURE-----  
[...]  
-----END PGP SIGNATURE-----
```

Certificate

