



Application for Fracture Mechanics: CS_032F Certification

Certification in Fracture Mechanics

Individuals, who obtains the **Certification in Fracture Mechanics** certification, can explain the history of fracture mechanics, its principles, models (elastic, elastic-plastic, and plastic), and differing models, defining the best assessment methods using fracture mechanics, and define and distinguish between the traditional approach to fatigue assessment, and the fracture mechanics approach to fatigue assessment.

The program was designed for individuals working in pipeline integrity who either have a university degree from a recognized or accredited university or have four years of relevant work experience within the pipeline integrity field or have an engineering degree from a recognized or accredited university, or who has a professional engineering qualification (for example, PEng. or CEng).

Before completing this application, please go to our website and download the Candidate Handbook. The handbook provides comprehensive explanations of the application process, eligibility requirements, examination content and more.

This application contain eight sections:

- Section 1: Applicant Information
- Section 2: Special Testing Accommodations
- Section 3: Certificate and Certificant Registry
- Section 4: Evidence of Eligibility
- Section 5: Refund Policy
- Section 6: Code of Conduct
- Section 7: Candidate Agreement and Statement of Acknowledgment
- Section 8: Payment Information
- Appendix: Affidavits

Please ensure all sections of your application is complete. All required evidence of eligibility documentation should be submitted as part of your application. Missing or incomplete documents will only delay your application review.

If you have any questions, email application@CERTIVATION.com.

The application information is held in strict confidence according to the CERTIVATION GmHB Confidentiality Policy as stated in the Candidate Handbook.

APPLICATION INSTRUCTIONS

Your legal name must match the name on the government-issued photo identification you will be presenting to the proctor in order to be admitted take the certification examination.

The contact information you provide will be used for all correspondence with the email address the main form of communication. The address may be either your personal address or business address. Your certificate will be mailed to this address.

Application fees are **NON-REFUNDABLE**; candidates are encouraged to review the eligibility and evidence requirements detailed in the Candidate Handbook prior to applying.

Applicants whose application is incomplete and/or any of the required documentation is missing, will be notified by email. The email will include the list of discrepancies and inform the applicant that they have thirty-(30) days to correct the discrepancies. Failure to correct these discrepancies within the allotted time period will forfeit their application fee and be required to start the application process again which includes paying another application fee.

Applicants are responsible and encouraged to save a copies of all documentation submitted.

Completed applications and documentation should be saved in PDF format using the following naming convention: Last_First_CA.pdf; then email the signed application to: application@CERTIVATION.com

SECTION I: APPLICANT INFORMATION

Certification: : **Certification in Fracture Mechanics CS_032F**

Date of application submission:

Legal Name:

Daytime Phone Number:

Mailing Address:

Country:

E-mail: _____ @ _____

SECTION II: SPECIAL TESTING ACCOMMODATIONS

The purpose of test accommodations is to provide all candidates with full access to the test. However, test accommodations are not a guarantee of improved performance or test completion. CERTIVATION GmbH will provide reasonable and appropriate test accommodations to individuals with documented disabilities who demonstrate a need for test accommodations.

I will be applying for special testing accommodations and I understand that my application will **NOT** be approved until I submit the required documentation.

I will not be applying for special testing accommodations

SECTION III: CERTIFICATE / CERTIFICANT REGISTRY

CERTIFICATE

Enter your name exactly as it should appear on your certificate. This does not have to match your government issued ID.

CERTIFICATE REGISTRY

The Certification Registry is an up-to-date record of individuals who have earned a certification and those who have chosen to keep it active. The registry is an opportunity for employers and recruiters to verify your certification. Certificants can opt out of the having their name published in the online registry during the application process. However, we are obligated to give this information on request on the basis of ANSI/ISO/IEC 17024.

No personal contact information, such as email, physical address, or phone number, will be included in the registry. Inclusion in the registry is voluntary. If you have an active certification and choose not to be listed in the certification registry, your information will not be included. You will NOT be notified if a request is made about the status of your certification.

The certification registry will only include the following information:

- Certificants name
- Personnel Certification number
- Personnel Certification expiration date
- Personnel Certification type
- Country of Residence

SELECT ONE

I want my name to be included in the certification registry.

I do **NOT** want my name to be included in the certification registry.

SECTION IV: EVIDENCE OF ELIGIBILITY

EDUCATION

Applicants must meet one of the Education eligibility requirements.

1. Applicants must have an engineering degree from a recognized or accredited university.
2. Applicants must have a professional engineering qualification; i.e. PE or CEng.
3. Applicants must have graduated from an accredited or recognized four-year university.
4. In lieu of a degree, 4 years of relevant work experience within the pipeline integrity field.

MANDATORY acceptable evidence includes:

- A photocopy of transcripts or diploma certificates for any degrees earned or
- A photocopy of professional certifications acquired or
- A completed **EXPERIENCE IN LIEU OF DEGREE VERIFICATION AFFIDAVIT** form

TRAINING

Applicants are required to have **18** hours of Training in the competency topic in which they are applying. Training must have identified goals and objectives defined by a training department, or training provider. Examples include classroom instruction, web-based training, e-learning courses, workshops, seminars, webinars, in-house training, etc. 1 CEU = 10 hours of participation. Acceptable evidence of training includes:

- Copies of training certificates or

- Letters of completion

MENTORING

Applicants are required to have **36** hours of mentoring or guided learning under the guidance of a mentor. It is **MANDATORY** for applicants to submit the **MENTORING VERIFICATION AFFIDAVIT** with their application.

EXPERIENCE

Applicants are required to have **100** hours of work experience in the competency topic in which they are applying. It is **MANDATORY** for applicants to submit the **EXPERIENCE VERIFICATION AFFIDAVIT** with their application.

By initialing, I understand that my application will **NOT** be approved until I submit the required documentation.

SECTION V: REFUND POLICY

1. Fees are subject to change and it is the applicant / candidate's responsibility to submit the current fee for any aspect of the certification. A description of all fees are published in the candidate's handbook.
2. Application fees are non-refundable, which is why candidates are encouraged to review the eligibility requirements prior to applying.
3. Applicants whose applications are incomplete and fail to correct any and all discrepancies within thirty-(30) days of notification, forfeits their application fee.
4. Candidates arriving thirty-(30) minutes after the scheduled start exam time will be considered absent and will forfeit their exam fee.
5. Candidates who are a no show, forfeits their exam fee.
6. Candidates who fail to take their exam within the one-(1) year timeframe, which begins at the time of payment for the exam, forfeits all fees paid.
7. Refunds are not granted to candidates who forfeit or fail the examination; this includes candidates who cannot produce the required identification for exam admittance. Under these circumstances candidates will be considered absent, will forfeit the full examination fee, and will be required to repay the examination fee.
8. Refunds and partial refunds for examination fees are granted at the discretion of the CERTIVATION GmbH certification management for extenuating circumstances only

By signing below, I am acknowledging that I read and understand the refund policy.

APPLICANT SIGNATURE

DATE

SECTION VI: CODE OF CONDUCT

The Code of Conduct establishes the basic ethical standards for the professional behavior of certificants. Although a Code of Conduct cannot include rules for every imaginable situation, it is designed to provide both appropriate ethical practice guidelines and enforceable standards.

As a condition of earning and maintaining certification, I agree to uphold and abide by the following tenets:

- Exercise a reasonable industry standard of care in the performance of professional duties
- Perform professional duties with trust, integrity, and verity
- Respect human rights
- Hold paramount the health and safety of the public in the performance of professional duties.
- Work in a manner consistent with all applicable laws and regulations; demonstrate integrity, honesty, and fairness in all activities; and strive for excellence in all matters of ethical conduct.
- Act with integrity in any relationship that involves an employer or client and disclose fully to an affected employer or client any conflicts-of-interest resulting from business affiliations or personal interests. Voluntarily and immediately report any felony convictions or other legal dispositions that would constitute violations of this Code of Conduct that have not already been disclosed, regardless of when they occurred, and report any conditions that prohibit fulfillment of duties as set forth in the competence requirements

By signing below, I agree to abide by the code of conduct.

APPLICANT SIGNATURE

DATE

SECTION VII: CANDIDATE AGREEMENT ACKNOWLEDGEMENT

The candidate for the award or certification of a competency agrees and acknowledges, by signing below, to the following provisions:

1. the competence assessment and all related materials sent to the candidate are copyrighted and strictly confidential, and shall not be shared with any third party;
2. the candidate has seen and understands the relevant Competence Standard(s), contents, requirements, and criteria, and believes he/she meets these;
3. the candidate agrees to notify the CERTIVATION in a timely manner of changes concerning the information they have provided, including my current address and telephone number;
4. the candidate agrees to notify CERTIVATION without delay, of any matter that affects the individual's ability to continue to fulfil the Personnel Certification requirements once Personnel Certification is granted;
5. the candidate accepts and agrees with the assessment and its criterion (subject to item 8);
6. the candidate will act in a truthful and honest manner at all times and declares that all information and documentation he/she submits is correct and an honest record of his/her education, qualifications and experience;
7. the candidate will not participate in fraudulent test taking practices;

8. the candidate will submit all required information and documentation prior to any award or certification, and that all materials submitted become the property of QPPI Certification Board and CERTIVATION GmbH, and are not required to return the materials;
9. information related to the participation in this assessment may be used in an anonymous manner for research purposes only;
10. the candidate is aware of the grievance and appeal process, and will accept the final outcome of such process;
11. the candidate will comply with all applicable provisions of this assessment and any resulting certification scheme;
12. the candidate will immediately cease the use of all claims to the assessment or certification that contain any reference to the Assessment or QPPI Certification Board or any award by such QPPI Certification Board upon suspension or withdrawal of such certification, and to return all certificates issued by the QPPI Certification Board;
13. the candidate will only make claims regarding this assessment only with respect to the scope for which the certification has been granted;
14. the candidate hereby releases, discharges and indemnifies CERTIVATION GmbH, QPPI Certification Board, ROSEN Swiss AG, all related ROSEN entities, its directors, officers, members, examiners, employees, attorneys, representatives and agents from any actions, suits, damages, claims or obligations arising out of or in connection with this application and the awarded competency or qualification. The candidate further agrees and understands that all decisions regarding competency or qualification award rest solely in the discretion of Body;
15. the candidate agrees not to use the use the certification in such a manner as to bring the certification body into disrepute, and not to make any statement regarding the certification which the certification board considers misleading or unauthorized;
16. the candidate agrees not to use the certificate in a misleading manner;
17. Information about applicants / candidates / certificants and their application status and examination results are considered confidential. Personal information submitted by the applicants / candidates / certificants with an application is considered confidential. Confidential information will not be released unless a signed release is provided or is required by law. When required by law, the applicants / candidates / certificants will be notify to the extent permitted by law.

Any violation of the above provisions may result in the immediate suspension or withdrawal of the assessment or certification. The candidate can appeal the suspension or withdrawal in accordance with the discipline policy. If the candidate does not appeal or the suspension / withdrawal is upheld, then the assessment and/or certification will be immediately rescinded.

The candidate has read this Candidate Agreement and Statement of Acknowledgment in its entirety, understands it and agrees with it.

By signing below, the candidate agrees to comply with all the above provisions.

APPLICANT SIGNATURE

DATE

SECTION VIII: FEES & PAYMENT INFORMATION

APPLICATION FEE- (NON-REFUNDABLE)

Application fees are the non-refundable fees paid for the processing, review, and data management for each certification application. This is paid when the application is submitted. The application fee must be paid every time an applicant applies to any of the certifications available except for applicants applying for the Certified Pipeline Integrity Engineer certification.

Applicants, whose applications is incomplete and not corrected within thirty-(30) days of notification will forfeit their application fee and will be required to repay the application once if they restart the application process.

- Individual Competency Certification Application Fee: \$150
- Pipeline Integrity Engineer Certification Application Fee: n/a

EXAM SITTING FEE

Examination Sitting Fees are the non-refundable fees paid to take the knowledge examinations.

Candidates must pay the exam-sitting fee within **thirty-(30) days** of acceptance into the program and must schedule their exam within the **one-(1) year** of paying the exam-sitting fee. Failure to do so, the candidate will forfeit all fees paid.

- Individual Competency Certification Exam Sitting Fee: \$350
- Pipeline Integrity Engineer Certification Examination Fee: \$500

EXAMINATION RETAKE FEE

Examination retake fees are the non-refundable.

If a candidate fails an exam, they are allowed to retake the exam for a total of three-(3) attempts. The examination retake fee must be paid for each attempt. Refer to the candidate handbook for eligibility and process.

- Individual Competency Examination Retake Fee: \$250
- Pipeline Integrity Engineer Certification Examination Fee: \$350

RECERTIFICATION FEE:

In order to maintain active certification status, candidates must apply for renewal of certification to the Certification Committee every five (5) years. Refer to the candidate handbook for recertification process.

- Individual Competency Recertification Fee: \$350
- Pipeline Integrity Engineer Recertification Fee: \$500

CERTIFICATE REPLACEMENT:

Candidates who lose or damage their certificate and wish to replace their certificate will incur a certificate replace fee.

- Certification Replacement Fee: \$200

PAYMENT INFORMATION

All payments must be made by either a Visa or MasterCard credit card. We do **NOT** accept American Express. Payments can be made through the CERTIVATION website.

EXPERIENCE VERIFICATION AFFIDAVIT

Applicant Name:

Certification program applying to: Certified in Fracture Mechanics: CS_032

The person named above is applying to the Pipeline Integrity Engineer Certification Program.

Please verify the information and hours provided on the following page(s) is accurate.

Organization (Company)
Name

Address

City

State/Providence

Postal Code

Supervisor/ Manager Representative

Representative Name

Title

Telephone

Email

I hereby verify that the information provided is true and correct and I release this form to CERTIVATION for verification. I am aware that all applicants are subject to audit by CERTIVATION and that I may be contacted by the CERTIVATION if further details are needed.

Representative Signature

Date

APPLICANT:

By signing below, I certify all facts on this mentoring verification affidavit is correct. I understand any false statements made in connection with my application is sufficient cause for my application to the Pipeline Integrity Engineer Certification Program to be denied.

Applicant Signature

Date

Complete this form in its entirety and save it using the following naming convention: Last_First_EX32.pdf; then email the completed form with your application to: application@certivation.com.

<i>Confidentiality:</i> Public	<i>Revision date:</i> 24-April-2020	<i>Title of the document:</i> Experience Verification Affidavit CS032F	Page1 of2
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Applicant Name

Job Title

Project Name

Start Date (mm/yyyy)

End Date (mm/yyyy)

Enter the number of hours you have spent working in each knowledge area and a brief description on how you applied this knowledge. This will count toward the total hours of experience needed to fulfill the eligibility requirement.

Hours	Knowledge Area	Brief Description
		Quantitative and qualitative toughness and interpreting fracture toughness (Kmat) from Charpy and toughness data, using standard correlations. Fracture toughness testing.
		Identify primary and secondary stresses, toughness, and other inputs to a fracture analysis.
		Stress fields at crack tips, and elastic-plastic fracture using K, J, or CTOD. Relationship between K, J and CTOD.
		FADs for fracture and collapse. Choice of FAD, inclusion of residual stress, effects of pressure testing and PWHT on inputs.
		Can carry out fatigue analyses by S-N or fracture mechanics methods, including environmental effects and cycle counting of data.
		Assessment codes – BS 7910, API 579 - and other approaches (e.g., CorLAS, PAFFC, LEFM). Use of commercial ECA software packages for routine analyses.
		Case studies.
		Assessment of environmental cracking.
		Can interpret pipeline data such as design and service records, pipe stress analysis output, SCADA data, and derive inputs for fracture and fatigue analyses
Additional Comments (other relevant experience)		

MENTORING VERIFICATION AFFIDAVIT

Applicant Name:

Certification program applying to: Certified in in Fracture Mechanics: CS_032F

The person named above is applying to the Pipeline Integrity Engineer Certification Program and is required to provide evidence he/she has received 36 hours of mentoring or guided learning. Mentoring is not managing. Mentoring focuses on the development of an individual through the sharing of experiences and knowledge from a more experienced and/or knowledgeable person.

Mentor¹ Name

Job Title

Organization (Company) Name

Address

Email

Telephone

Relationship to the applicant

From (mm/yyyy)

To (mm/yyyy)

Approximately how many hours did you mentor the applicant?

Please give the number of mentoring hours/topic:

1. Quantitative and qualitative toughness and interpreting fracture toughness (Kmat) from Charpy and toughness data, using standard correlations. Fracture toughness testing.
2. Identify primary and secondary stresses, toughness, and other inputs to a fracture analysis.
3. Stress fields at crack tips, and elastic-plastic fracture using K, J, or CTOD. Relationship between K, J and CTOD.
4. FADs for fracture and collapse. Choice of FAD, inclusion of residual stress, effects of pressure testing and PWHT on inputs.
5. Can carry out fatigue analysis by S-N or fracture mechanics methods, including environmental effects and cycle counting of data.
6. Assessment codes – BS 7910, API 579 - and other approaches (e.g., CorLAS, PAFFC, LEFM). Use of commercial ECA software packages for routine analysis.
7. Assessment of environmental cracking.
8. Can interpret pipeline data such as design and service records, pipe stress analysis output, SCADA data, and derive inputs for fracture and fatigue analysis.

1 A 'mentor' is a trusted adviser, with the necessary knowledge and wisdom to provide advice and guidance. He/she is a critical friend, or guide, who is responsible for overseeing the career and development of another person, outside the normal manager/subordinate relationship. Mentoring differs from coaching: coaching transfers knowledge, but it has a fixed agenda, related to a task, with a clear outcome, usually short term, and focused on a competency. Mentoring does not have a fixed agenda, it is related to the development of an individual, without a variable outcome, is long term, and focused on the individual. This means that mentoring can be a structured process, but does not need to be formal.

MENTOR:

I hereby verify that the information provided is true and correct and I release this form to CERTIVATION for verification. I am aware that all applicants are subject to audit by CERTIFICATION and that I may be contacted if further information is needed.

Mentor Signature

Date

APPLICANT:

By signing below, I certify all facts on this mentoring verification affidavit is correct. I understand any false statements made in connection with my application is sufficient cause for my application to the Pipeline Integrity Engineer Certification Program to be denied.

Applicant Signature

Date

Complete this form in its entirety and save it using the following naming convention: Last_First_MV32.pdf; then email the completed form with your application to: application@certivation.com.

<i>Confidentiality:</i> Public	<i>Revision date:</i> 24-Feb-2020	<i>Title of the document:</i> Experience Verification Affidavit CS032F	Page2 of2
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