

Experienced Industry Professionals Pathway
Application Requirements for the Designation of
Certified Specialist in Catastrophe Risk (CSCR)¹
Based on Experience in Lieu of Examinations

Requirements

1. **Recommendation** – All candidates for this designation must be recommended by their current or recent supervisor, or a person with the CCRMP credential clearly stating the date the candidate began their career in the cat modeling profession.
2. **Evidence of Experience** – Once nominated, each candidate will be notified and will be required to provide **evidence of mastery** in each subject matter category listed in the current syllabus and noted herein. This will include providing written **descriptions of experience, examples and references** who can verify competencies and/or prior supervision. Narratives citing examples of experience, competencies and mastery of each section should be at least ½ page but should be no more than 1 page in length. The narrative may include references to confidential work but should not disclose any confidential information.

A. General Skill Requirements – 3 sections

Subject Matter Categories required for exams pertaining to the designation of *Certified Specialist in Catastrophe Risk (CSCR)¹*

- 1) Property & Catastrophe Insurance Fundamentals
 - Passing of relevant exams or
 - Demonstration of understanding plus application
 - Insurance and/or reinsurance
- 2) Catastrophe Model Usage
 - Application of multiple model methodologies
 - Demonstrate understanding plus application of:
 - Hazard impact of various catastrophe perils and/or global territories
 - Structure vulnerabilities
 - Different primary insurance coverage terms
- 3) Catastrophe Model Results Usage
 - Demonstrate experience and competency with respect to data handling, including knowledge of schemas
 - Exposure data cleaning and validation
 - Accumulation management methods
 - Use of model output from various modeling methodologies for varied applications (e.g., pricing, risk selection, capacity management)

B. Examples of Quality Answers

- To assist candidates in writing applications, please refer to the examples of quality answers below that meet the requirements of demonstrating **evidence of mastery**.
 - **Section A-1: Demonstrating understanding and application of insurance/reinsurance:**

Risk attaching treaties cover losses from exposures based on the inception dates of the policy and the treaty period, the date of loss occurrence is not considered as it would be in loss occurring treaties. In the modeling of a client's portfolio which included risk attaching treaties, there was a large increase in the treaty losses as compared to the previous year. Upon investigation I discovered there were expired accounts which were not removed from the portfolio, and the treaties losses included recoveries for those expired accounts since their inception date was within the treaty period. Once these expired policies were removed the results were in line with expectations.
 - **Section A-2: Demonstrating understanding and application of structure vulnerabilities:**

Completed a sensitivity analysis for a client who was looking to leverage the use of secondary modifiers to decrease their estimated HU modeled losses of their residential lines portfolio in Florida. We targeted roof geometry as the client's portfolio had majority of them reported as unknown, and

most of the other secondary modifiers had complete data reporting with very few unknowns compared to Industry. Wind uplift loads vary with roof slope and shape whereas sharp corners and edges result in higher wind loads. The steeper the slope on a gable or hip roof, the lower the wind uplift load. Gable end bracing helps resist higher wind suction at the gable end walls. Using both Model A and Model B, based on the loss costs study on various roof shapes relative to unknown, by keeping the occupancy as single-family dwelling with wood frame building to mirror the client's portfolio, we found that Hip roof loss costs were approximately X% to X% lower in Model A and up to X% lower in Model B. Flat roof loss costs were approximately X% to X% higher in Model A but they varied with year built in Model B, with loss costs similar to unknown for risks built in 1985, and yield higher loss costs than unknown for risks built in 2000 or 2010. Based on the material impact for FL, the client went ahead and purchased data from a company that determines roof geometry from satellite images.

3. Experience Time Requirements

Each candidate shall provide an experience timeline (resume, etc.) indicating which jobs qualified under the General Skill Requirements.

A. **General Skills** – Must demonstrate at least 5 years' experience performing skills in this class

¹ The designations and their abbreviations noted herein, are trademarks of the ISCM and iCAS who jointly own and manage the credentialization process for this designation as outlined in the Master Collaboration Agreement between the ISCM & iCAS.

