**Statement of Experience**

Application for the Designation of

**Certified Catastrophe Risk Management Professional (CCRMP)**

(In Lieu of Exams)

**For Candidates with Catastrophe Modeling Experience after January 1, 2004**

|  |  |
| --- | --- |
|  | Applicant Information |
| Name: |  |
| Phone:  |  |
| E-Mail: |  |
| Date Submitted: |  |

Please provide a professional statement of why you believe you should receive the CCRMP designation:

**CCRMP EIP Application – Section A- 1**

Evidence of Experience – Please provide **evidence of mastery** in each subject matter category section. Please include written descriptions of **experience, examples of work product** and professional 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.

1. **General Skill Requirements – 3 sections**
Subject Matter Categories required for exams pertaining to the designation of *Certified Specialist in Catastrophe Risk (CSCR)*
	1. Property & Catastrophe Insurance Fundamentals
		* + - Passing of relevant exams

or

* + - * + Demonstration of understanding plus application of insurance and/or reinsurance

If you have passed relevant industry exams list them in the space provided (e.g., CPCU, ARe, FCAS/ACAS, etc.). List the relevant experience you have for understanding insurance and/or reinsurance.

Note any relevant industry exams you have passed:

Provide evidence of your understanding of the insurance and/or reinsurance industry:

Describe a specific example of your experience in the application of insurance and/or reinsurance expertise:

(Optional) Please share any additional evidence of application in the form of articles written or relevant events:

**CCRMP EIP Application – Page 2: Section A-2**

* + 1. Catastrophe Model Usage
	+ Application of multiple model methodologies
	+ Demonstrate understanding and application of hazard impact of various catastrophe perils and/or global territories, structure vulnerabilities and different primary insurance coverages terms

Complete the tables below for the Catastrophe Models you have direct experience with including vendors, hands-on modeling, use of output files and custom analytics with those vendor models. Also check the territories, perils and model applications of which you have experience.

After filling in the tables, please provide at least two examples demonstrating an understanding of hazard impact, structure vulnerabilities, and/or different primary insurance coverage terms (you may utilize another page for your examples). It is important to demonstrate your understanding of how these 3 aspects of model usage might vary depending on the model used.

**Models and analytics you have used. Check all that apply:**

|  |  |  |  |
| --- | --- | --- | --- |
| Vendors | Hands-onModeling | Output File Analytics | Custom Analytics |
| AIR |[ ] [ ] [ ]
| ARA |[ ] [ ] [ ]
| CoreLogic |[ ] [ ] [ ]
| Impact Forecasting |[ ] [ ] [ ]
| KatRisk |[ ] [ ] [ ]
| KCC |[ ] [ ] [ ]
| RMS |[ ] [ ] [ ]
| Other: |[ ] [ ] [ ]

**Territories, perils and model applications. Check all that apply:**

|  |  |  |
| --- | --- | --- |
| Territories | Perils | Model Application |
| [ ]  US / North America | [ ]  Earthquake / FF | [ ]  Underwriting | [ ]  Portfolio Optimization |
| [ ]  Europe | [ ]  Hurricane / Tropical Cyclone | [ ]  Reinsurance Design | [ ]  Pricing (Primary) |
| [ ]  Japan | [ ]  Severe storm, tornado, hail | [ ]  Accumulation Management | [ ]  Pricing (Reinsurance/Retro) |
| [ ]  Asia  | [ ]  Inland Flood | [ ]  Event Response | [ ]  Geo Sciences |
| [ ]  Latin & South America  | ☐ Wild Fire | [ ]  Claims Management | [ ]  Other:\_\_\_\_\_\_\_\_\_\_\_ |
| [ ]  Other:\_\_\_\_\_\_\_\_\_\_\_ | ☐ Terrorism |  |  |

**Example 1 of hazard impact, structure vulnerabilities, and/or different primary insurance coverage terms**

Briefly describe the business objective:

Describe the type of modeling output used:

Detail your own experience with using the modeling results:

Describe the business benefit achieved:

**Example 2 of hazard impact, structure vulnerabilities, and/or different primary insurance coverage terms**

Briefly describe the business objective:

Describe the type of modeling output used:

Detail your own experience with using the modeling results:

Describe the business benefit achieved:

**CCRMP EIP Application – Section A-3**

* + 1. 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)

Please provide at least one example demonstrating your experience for each of the areas listed above.

**Example of data handling, including knowledge of schemas**

Provide an example demonstrating your experience with data handling:

What challenge(s) did you face?

How did you address this challenge?

**Example of exposure data cleaning and validation**

Provide an example of your experience with exposure data cleaning and validation:

What challenges and limitations did you face?

How did you overcome these challenges?

Describe the impact to model results.

**Example of accumulation management methods**

Provide an example of your experience with accumulation management methods:

Briefly describe the business objective:

Describe the type of modeling output used:

Detail your own experience with using the modeling results:

Describe the business benefit achieved:

**Example of model output from various modeling methodologies for varied applications**

Provide an example of your experience using model output from various modeling methodologies:

Briefly describe the business objective:

Describe the type of modeling output used:

Detail your own experience with using the modeling results:

Describe the business benefit achieved:

**CCRMP EIP Application – Section B-1**

1. **Advanced Skill Requirements** – 5 sections

Subject Matter Categories required for exams pertaining to the designation of *Certified Catastrophe Risk Management Professional (CCRMP)*

Advanced Catastrophe Risk Management and use of Catastrophe Models – Candidates must demonstrate mastery through both understanding and application of the following:

* 1. Understanding of model capabilities and limits (required)
* Identifying model bias and demonstrating appropriateness of model use for particular portfolios
* Types of adjustments needed for model completeness/non-modeled perils
* Sensitivity, stress and scenario testing and/or model validation with respect to model limitations including use of tools or techniques to supplement cat model output

Please provide at least one example demonstrating your experience for each of the areas listed above.

**Model bias**

Provide an example of your experience identifying model bias. Please state the business objective, what model output you used or worked with, and the outcome that was achieved:

How did you demonstrate appropriateness of model use for particular portfolios?

What challenges and limitations did you face?

How did you overcome these challenges?

**Types of adjustments**

Provide an example of your experience applying types of adjustments needed for model completeness/non-modeled perils. Please state the business objective, what model output you used or worked with, and the outcome that was achieved:

What challenges and limitations did you face?

How did you overcome these challenges?

**Sensitivity, stress and scenario testing**

Provide an example of your experience applying sensitivity, stress and scenario testing and/or model validation with respect to model limitations. Please state the business objective, what model output you used or worked with, and the outcome that was achieved:

**CCRMP EIP Application – Section B-2**

* 1. Portfolio Risk Management (required)
* Application of advanced risk metrics (e.g., TVAR, XSAAL, etc.) including risk-return concepts as applied to portfolios
* Model bias and/or incorporation of non-modeled perils, lines or coverages for deriving a more complete view of risk

Please provide at least one example demonstrating your experience for each of the areas listed above.

**Example of application of advanced risk metrics (e.g., TVAR, XSAAL, etc.) including risk-return concepts as applied to portfolios**

Briefly describe the business objective:

Describe the type of modeling output used:

Detail your own experience with using the modeling results:

Describe the business benefit achieved:

Describe how you overcame the model’s limitations:

**Example of your experience with model bias and/or incorporation of non-modeled perils, lines or coverages for deriving a more complete view of risk**

Briefly describe the business objective:

Describe the type of modeling output used:

Detail your own experience with using the modeling results:

Describe the business benefit achieved:

Describe how you overcame the model’s limitations:

**CCRMP EIP Application – Section B-3**

1. Pricing & Risk Capital Allocation (required)
	* Use of cat model output in risk transfer structuring (insurance, reinsurance, ILS, etc.)
	* Use of cat model output in rate filings, insurance pricing or underwriting
	* Use of cat model output in reinsurance placement and pricing
	* Use of cat model output in capital modeling and solvency calculation

Please provide at least one example demonstrating your experience for each of the areas listed above.

**Example of your experience using cat model output in risk transfer structuring**

Briefly describe the business objective:

Describe the type of modeling output used:

Detail your own experience with using the modeling results:

Describe the business benefit achieved:

Describe how you overcame the model’s limitations:

**Example of your experience using cat model output in rate filings, insurance pricing or underwriting**

Briefly describe the business objective:

Describe the type of modeling output used:

Detail your own experience with using the modeling results:

Describe the business benefit achieved:

Describe how you overcame the model’s limitations:

**Example of your experience using cat model output in reinsurance placement and pricing**

Briefly describe the business objective:

Describe the type of modeling output used:

Detail your own experience with using the modeling results:

Describe the business benefit achieved:

Describe how you overcame the model’s limitations:

**Example of your experience using cat model output in capital modeling and solvency calculation**

Briefly describe the business objective:

Describe the type of modeling output used:

Detail your own experience with using the modeling results:

Describe the business benefit achieved:

Describe how you overcame the model’s limitations:

**CCRMP EIP Application – Section B-4**

1. General Model Usage (required)
	* Customizing models to create your own view of risk. This includes frequency and severity customizations and awareness of the limitations of these
	* Communicating catastrophe management information to stake holders (e.g., actuaries, underwriters, etc.) and third parties (e.g., regulators)
	* Regulatory reporting, e.g., A.M. Best Supplemental Ratings Questionnaires, Solvency II compliance, Lloyd’s RDS, etc.

Please provide at least one example of any methods utilized to adjust a model and how the changes were communicated to key stake holders. Provide an example of using models for regulatory reporting and the purpose thereof.

**Customizing models to create your own view of risk**

Provide at least one example of any methods you utilized to adjust a model. Please state the business objective, what model output you used or worked with, and the outcome that was achieved:

Describe the frequency and severity customizations:

Describe the limitations of the frequency and severity customizations in your example:

**Communicating catastrophe management information to stake holders and third parties**

How were the changes communicated to key stake holders?

Describe any communication challenges you faced and how they were mitigated:

**Regulatory reporting**

Provide an example of how you have used models for regulatory reporting:

Describe the purpose of using models for regulatory reporting:

 **CCRMP EIP Application – Section B-5**

1. Post Event Loss Estimation (optional)
	* Major team contributor to post event loss estimation, including understanding model deficiencies and uncertainty in loss estimates
	* Manager and/or leadership of post event loss estimation / reserving advise and feedback of event-specific lessons into the view of risk

Please provide at least one example demonstrating your experience and leadership using cat models in post event loss estimation.

**Example demonstrating your experience and leadership using cat models in post event loss estimation**

Briefly describe the business objective:

Describe your role/responsibilities as a major team contributor or manager/leader to post event loss estimation:

Describe your understanding of model deficiencies and uncertainty in loss estimates:

Describe any post event loss estimation/reserving advice you provided:

Describe your involvement in feedback of event-specific lessons into the view of risk:

**CCRMP EIP Application – Section C**

* 1. **Experience Time Requirements**

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

1. **General Skills** – Must demonstrate at least 5 years’ experience performing skills in this class
2. **Advanced Skills** – (in addition to the time spent building general skills experience)
	* + - List the number years performing advanced skills
			- Oversight/company responsibility/leadership overseeing these roles (no minimum but years spent in this capacity will be considered towards qualification)

Please document the time spent in each of the sections listed above.

|  |  |  |  |
| --- | --- | --- | --- |
| **Skill Requirements** | **Total Years of Experience** | **Qualifying Jobs** | **Note Years in Leadership Roles**  |
| 1. General
 |  |  |  |
| 1. General Skill Requirements
 |  |  |  |
| 1. Catastrophe Model Usage
 |  |  |  |
| 1. Catastrophe Model Results Usage
 |  |  |  |
| 1. Advanced
 |  |  |  |
| 1. Understanding of Model Capabilities and Limits
 |  |  |  |
| 1. Portfolio Risk Management
 |  |  |  |
| 1. Pricing & Risk Capital Allocation
 |  |  |  |
| 1. General Model Usage
 |  |  |  |
| 1. Post Event Loss Estimation
 |  |  |  |

**CCRMP EIP Application – Section D:** References

Please provide at least three references in the following table. Please include the section(s) in which the reference will be confirming:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Name | Company | E-mail | Phone(s) | Section |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |

**CCRMP EIP Application – Section E:** Current CV (Please paste in your current CV)