**Written Qualification Exam Evaluation Competencies**

**Department of xxxx**

**Indiana University PhD Programs at IUPUI**

Candidate Name:

Title of Proposal:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Expectation | Does not meet expectations (unacceptable) | Meets expectations (acceptable) | Exceeds expectations (outstanding) |
| Knowledge and skills |  |  |  |  |
|  Literature review | Demonstrates comprehensive knowledge of current research in field |  |  |  |
|  Hypothesis/objectives | Generates viable research question and a testable hypothesis |  |  |  |
|  Research methods | Applies appropriate research methods to address hypothesis |  |  |  |
| Communication |  |  |  |  |
|  Writing | Proposal is clearly written and communicates high level material well with the reader |  |  |  |
| Critical thinking |  |  |  |  |
|  Analysis of data | Analyses relate to conceptual framework |  |  |  |
|  Interpretation of results | Interpretation justified, not over or under-drawn |  |  |  |
|  Conclusions  | Justified, based on appropriate statistics |  |  |  |
| Ethical research |  |  |  |  |
|  Appropriate certifications | Biosafety, IRB, IACUC, etc protocols documented and understood |  |  |  |
|  Evidence of original work | Literature search supports that research is original |  |  |  |
|  Appropriate citations | No evidence of plagiarism |  |  |  |

**Oral Qualification Exam Evaluation Competencies**

**Department of xxx**

**Indiana University PhD Programs at IUPUI**

Candidate Name:

Title of Proposal:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Expectation | Does not meet expectations (unacceptable) | Meets expectations (acceptable) | Exceeds expectations (outstanding) |
| Knowledge and skills |  |  |  |  |
|  General principles | Demonstrates comprehensive knowledge of **xxx** concepts |  |  |  |
|  Literature review | Demonstrates comprehensive knowledge of current research in field |  |  |  |
|  Hypothesis/objectives | Able to clearly defend the hypothesis  |  |  |  |
|  Research methods | Applies appropriate research methods to address hypothesis |  |  |  |
|  Research methods | Demonstrates a clear understanding of the methodology and the ability to troubleshoot |  |  |  |
| Communication |  |  |  |  |
|  Oral explanations | Oral explanations are clear and to the point |  |  |  |
| Critical thinking |  |  |  |  |
|  Reasoning skills | Demonstrates the ability to reason through hypothetical problems |  |  |  |
|  Analysis of data | Analyses relate to conceptual framework |  |  |  |
|  Interpretation of results | Interpretation justified, not over or under-drawn |  |  |  |
| Integration of findings into the current ‘state’ of the field  | Students are capable of identifying how their results integrate into the field and how they move the field forward |  |  |  |
|  Conclusions  | Justified, based on appropriate statistics |  |  |  |

**Principles of Graduate and Professional Learning**

“Graduate students earning the PhD from Indiana University in **xxx** on the IUPUI campus will demonstrate the following abilities related to the research focus of the degree:

**\*Demonstrate the knowledge and skills necessary to identify and conduct original research in xxx**

 Method of acquisition: Didactic course work, journal clubs, attendance at research seminars, direct mentoring by faculty, studying grant proposals

 Assessment of learning: Grades in course work, ability to pass cumulative preliminary examinations in the field, ability to pass the oral and written qualifying examination, direct laboratory assessment by the research mentor, direct assessment of progress by the research committee for the dissertation

**\*Communicate effectively high level information in xxx**

 Method of acquisition: Attendance required at seminars by faculty and peers, presentation at informal laboratory meetings and at formal seminars, mentored writing of grant proposals and manuscripts

 Assessment of learning: Successful completion of the oral and written portions of the qualifying examinations, grades on formal seminar presentations based on outcomes rubrics, publication of manuscripts, awarding of grants

**\*Think critically and creatively to solve problems in xxx**

 Method of acquisition: Attendance required at seminars by faculty and peers, presentation at informal laboratory meetings and at formal seminars, writing pre-proposal for dissertation, writing dissertation proposal

 Assessment of learning: Grades on formal seminar presentations based on outcomes rubrics, direct assessment by faculty on pre-proposal and dissertation proposal, publication of research manuscripts, success in getting grant proposals funded.

**\*Conduct research in an ethical and responsible manner**

 Method of acquisition: Required classes in research ethics, modeling of appropriate behavior in seminars by faculty and peers, direct mentoring by research director, mentoring by the dissertation research committee

 Assessment of learning: Grades in ethics classes based on outcomes rubrics, direct observation of data handling by research mentor, direct oversight by dissertation research committee on issues of research compliance and ethics