

**Instructions:** Only two course deficiencies can be satisfied in this manner and only one in each area (A-Fisheries/Aquatics; B-Other Biological Sciences; C-Physical Sciences; D-Quantitative (Mathematics/Statistics); E-Communications; and F-Human Dimensions).

**\*\*To satisfy a single course deficiency, three (3) out of items (I-IV) must be checked.\*\***

**I. Letter from supervisor that directly alludes to specific deficiency and comments on the proficiency of the applicant in that area (i.e., statistics, communications, fisheries, etc.).**

**II. Add two years to the existing experience requirement (Ph.D. – 2 years; M.S. – 4 years; B.S. – 5 years) for each course deficiency.**

**III. Applicant must list the following to satisfy a deficiency in the stated coursework area (Categories A-F). Papers must be submitted with the application.**

*Applicant must be the senior author of at least one manuscript.*

*A. Fisheries/Aquatic Sciences*

A1. Author of two (2) published (published paper, book, D-J report) manuscripts dealing with fish (ecology, management, ichthyology, toxicology, behavior, physiology, etc.). At least one manuscript must be in a refereed journal.

*B. Other Biological Sciences*

B1. Published two (2) manuscripts that deal with renewable aquatic resources. At least one manuscript must be in a refereed journal.

*C. Physical Sciences*

C1. Published two (2) manuscripts that involve physical sciences (chemistry, physics, geology or hydrology.). At least one manuscript must be in a refereed journal.

*D. Quantitative (Mathematics/Statistics)*

D1. Published two (2) manuscripts that have made statistical inference. At least one manuscript must be in a refereed journal.

*E. Communications*

E1. Published two (2) manuscripts, one in a refereed journal and;  
E2. Presented two (2) presentations; at least one must be a technical presentation at a scientific meeting.

*F. Human Dimensions*

F1. Published two (2) manuscripts that must be focused on socio-economic topics of

natural resource science and management, preferably those issues and aspects that directly pertain to fisheries management. At least one manuscript must be in a refereed journal.

**IV. Letter to the Board of Professional Certification from a colleague (of the applicant) who is a Certified Fisheries Professional and is not the applicant's supervisor that directly addresses the specific coursework deficiency and how that deficiency has been satisfied**