



# Dimension 5: Integration of science and technology

Info. management, data collection and quality control



Generation of forecasts, outlooks, watches / warnings



IDSS



Management, teamwork and leadership



Integration of science and technology



**Competency: Developing and maintaining scientific skillsets:** Understand theory, able to engage in independent scientific assessments, develop case studies, and conduct research for personal growth and for continuing to improve science-based solutions for NWS

## GS-5 to GS-7

- Demonstrates, using basic-level skill, ability to apply environmental science and techniques to assessments and case studies to benefit the NWS mission.
- Demonstrates, with frequent supervision, sharing knowledge inside and outside of the office clearly and effectively to colleagues and customers.
- Demonstrates the ability to review local office research projects and case studies to broaden knowledge base and improve skills.
- Routinely completes assigned training in a timely manner.

## GS-7 to GS-9

- Demonstrates ability to apply environmental science and techniques to assessments and case studies to benefit the NWS mission.
- Demonstrates, with supervision, ability to use intermediate-level environmental science and techniques to identify and project impacts for critical local hazards.
- Demonstrates, with minimal assistance, ability to share knowledge inside and outside of the office.
- Demonstrates the ability to participate in research projects and case studies with colleagues.
- Routinely completes assigned training in a timely manner.

## GS-9 to GS-11

- Demonstrates, with minimal assistance and with advanced-level skill, ability to apply environmental science and techniques to improve operations, communicate the scientific basis behind complex situations/events, and project impacts for critical local hazards to benefit the NWS mission.
- Demonstrates, with limited supervision, ability to use advanced environmental science and techniques to identify and project impacts for critical local hazards.
- Demonstrates, independently, ability to share knowledge inside and outside of the office.
- Demonstrates ability to lead research projects and case studies with colleagues.
- On occasion may serve as a key resource to others.
- Routinely completes assigned training in a timely manner.

## GS-11 to GS-12

- Exhibits advanced-level skill in applying environmental science and techniques to improve operations, communicate the scientific basis behind complex situations and events, project impacts for critical local hazards, and to benefit the NWS mission.
- Independently and regularly shares knowledge inside and outside of the office clearly and effectively to colleagues and customers.
- Regularly leads research projects and case studies with colleagues.
- Routinely completes assigned training in a timely manner.
- Demonstrates the ability to serve as a key resource to others.



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**Competency: Developing and maintaining technical skillsets:** Incorporate best practices from outside and across NWS to stay current with latest developments in technologies and tools and provide sound technical solutions to current operational challenges

## GS-5 to GS-7

- Demonstrates, with regular assistance, ability to seek out new and broader techniques in the integration of technological practices to multi-office and multi-function challenges.
- Demonstrates, with regular assistance, ability to apply technologies to improve operations, communicate the scientific basis behind complex situations and events, project impacts for critical local hazards, and benefit the NWS mission.

## GS-7 to GS-9

- Demonstrates, with considerable assistance, ability to consistently seek out and identify new and broader techniques in the integration of technological practices to multi-office and multi-function challenges.
- Demonstrates, with considerable assistance, ability to apply intermediate-level skills in applying technologies to improve operations, communicate the scientific basis behind complex situations and events, project impacts for critical local hazards, and benefit the NWS mission.

## GS-9 to GS-11

- Demonstrates, with minimal assistance, ability to organize new and broader techniques in the integration of technological practices to multi-office and multi-function challenges.
- Demonstrates, with minimal assistance, ability to apply advanced-level skills in applying technologies to improve operations, communicate the scientific basis behind complex situations and events, project impacts for critical local hazards, and benefit the NWS mission.
- On occasion may serve as a key resource to others.

## GS-11 to GS-12

- Regularly organizes broader techniques in the integration of technological practices to multi-office and multi-function challenges.
- Independently applies technologies to improve operations, communicate the scientific basis behind complex situations and events, project impacts for critical local hazards, and benefit the NWS mission.
- Demonstrates the ability to serve as a key resource to others.