



# AWOC Facilitation Strategies

WDTB Facilitation Workshop  
Brad Grant



# The Purpose Of AWOC

**“Training to all forecasters on warning decision making principles”**



# Performance Benefits

- Establishes benchmark for learning concepts
- Natural follow-on to DLOC
- Provides opportunity for professional growth of operational watch/warning related job duties
  - Transition from Intern to Journey
  - change of duty stations
  - cross-pollination of expertise
- Course Completions Reported to Regions

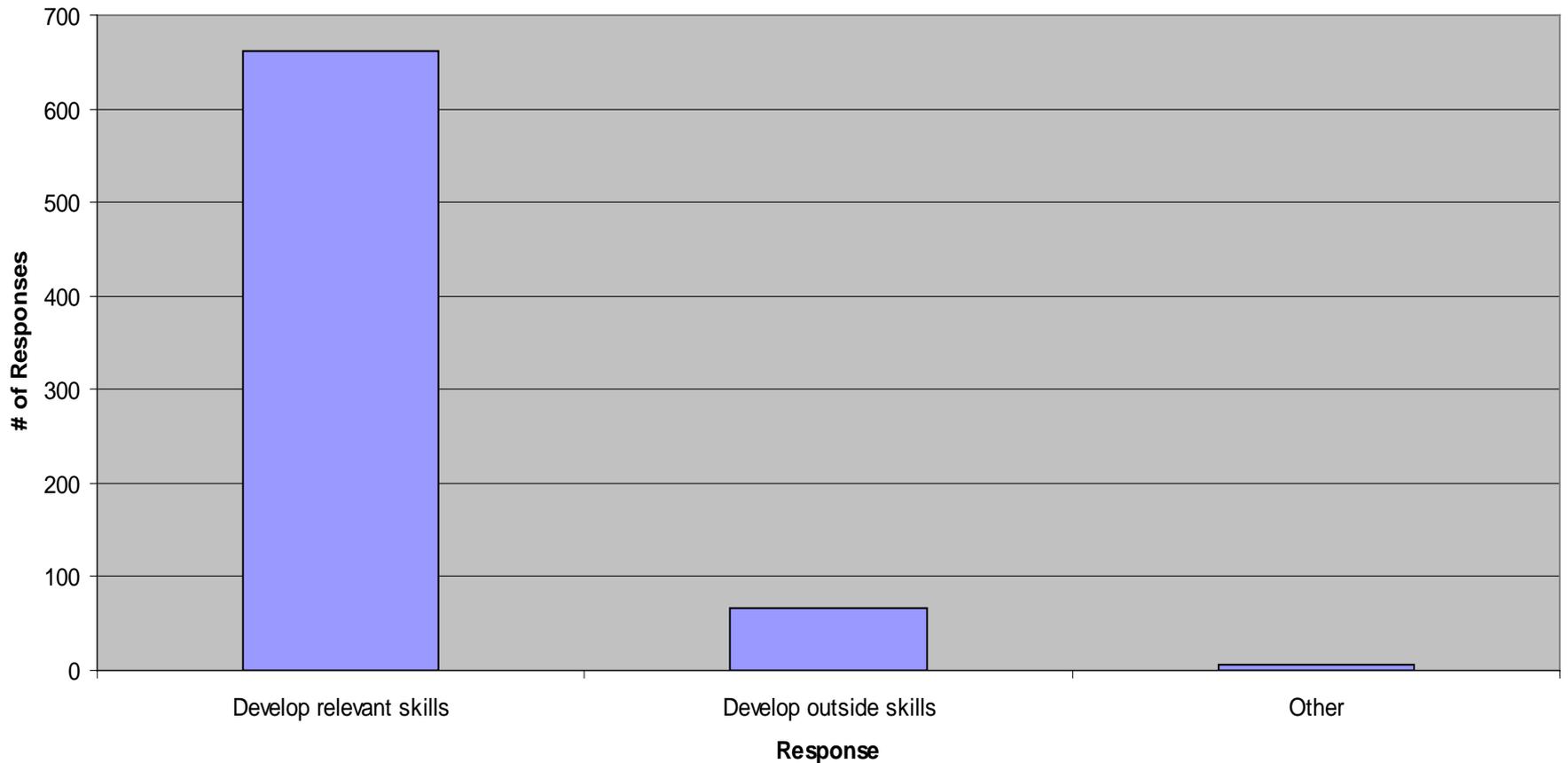
## Question 1

My Primary Purpose for taking AWOC was  
(choose one):

- a) To develop skills relevant to my currently assigned position
- b) To develop skills outside my currently assigned job
- c) Other

# AWOC Level 1 Evaluation Results

AWOC Severe Q1 Summary



## Question 2

Prior to completing AWOC, how well would you rate your knowledge of the general subject matter contained in the Course?

- None = 1
- Very little knowledge = 2
- Modest knowledge = 3
- Considerable Knowledge = 4
- Major Knowledge = 5

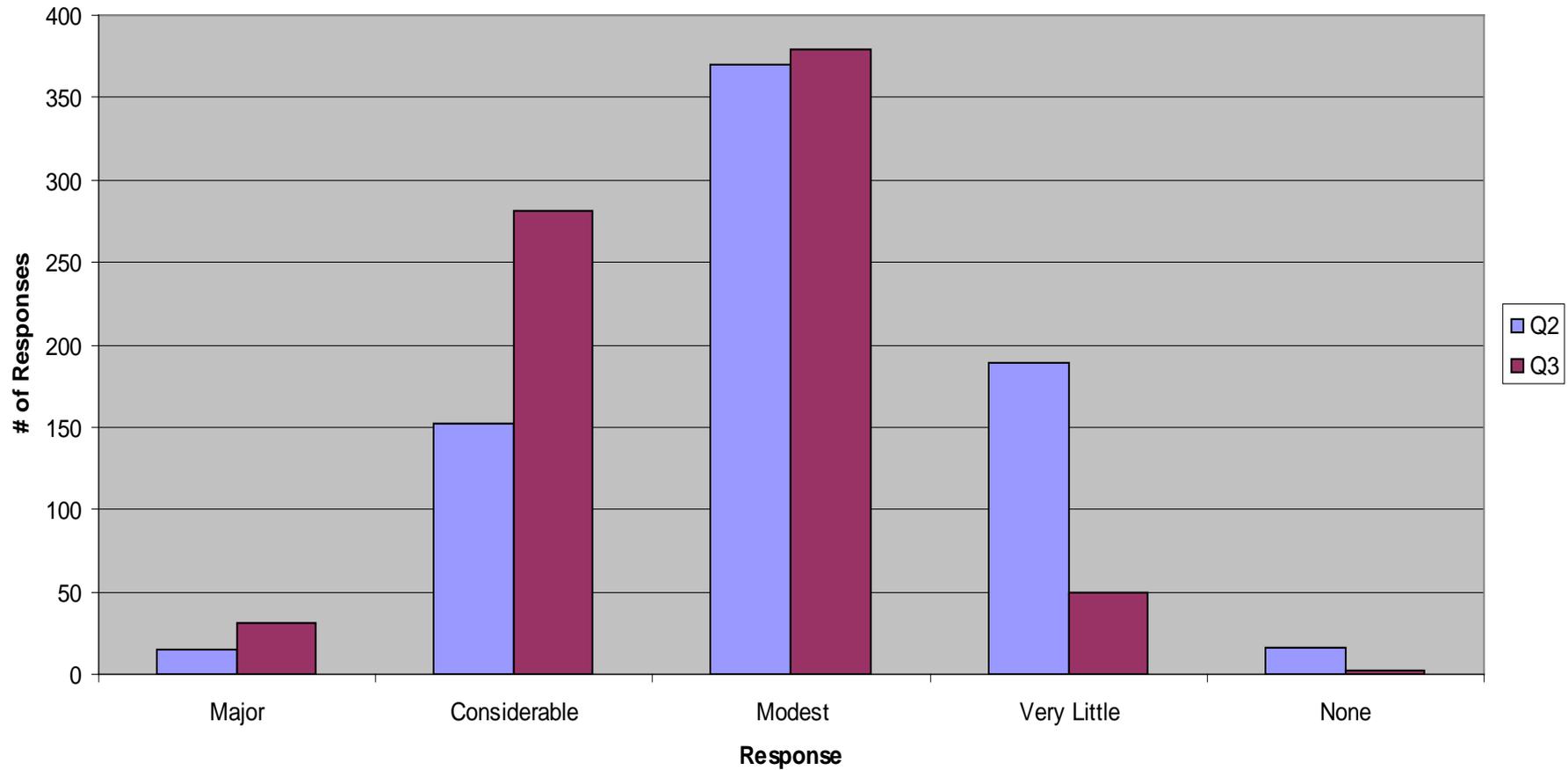
## Question 3

After completing AWOC, how would you rate your change of knowledge of the general subject matter contained in the Course?

- No improvement = 1
- Very little improvement = 2
- Modest improvement = 3
- Considerable improvement = 4
- Major improvement = 5

# AWOC Level 1 Evaluation Results

AWOC Severe Q2-3 Summary



## Question 4

- **The instructional approaches used in AWOC provided an effective learning experience.**
- Strongly Disagree = 1
- Disagree = 2
- Neither Disagree nor Agree = 3
- Agree = 4
- Strongly Agree = 5

## Question 5

- **The instructional content was sufficient for meeting the course objectives.**
- Strongly Disagree = 1
- Disagree = 2
- Neither Disagree nor Agree = 3
- Agree = 4
- Strongly Agree = 5

## Question 6

- **I was satisfied with the design of web-based lessons in AWOC.**
- N/A
- Strongly Disagree = 1
- Disagree = 2
- Neither Disagree nor Agree = 3
- Agree = 4
- Strongly Agree = 5

## Question 7

- **For live teletraining sessions, the instructor enhanced the learning experience in AWOC.**
- N/A
- Strongly Disagree = 1
- Disagree = 2
- Neither Disagree nor Agree = 3
- Agree = 4
- Strongly Agree = 5

## Question 8

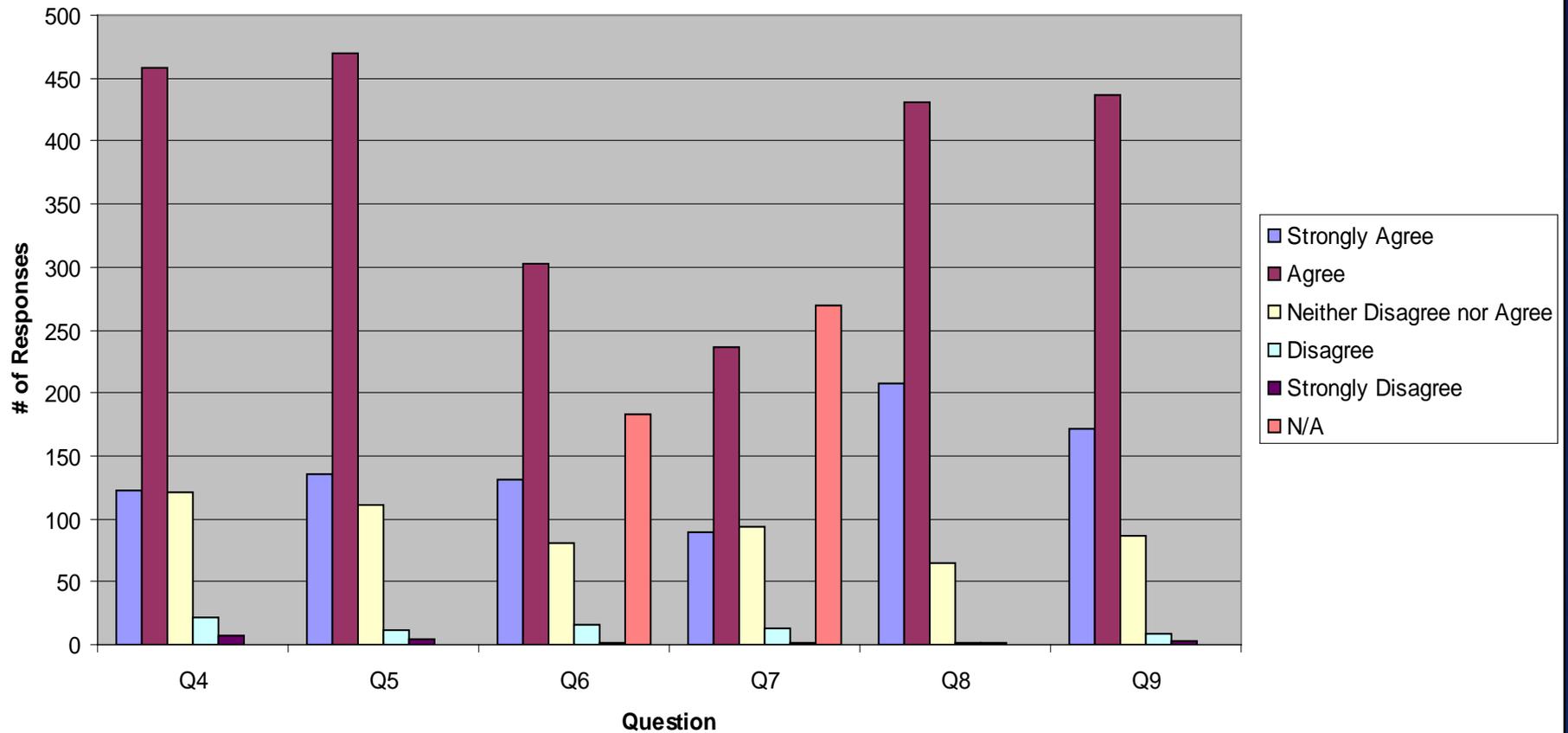
- **Overall, the training was relevant to my job performance.**
- Strongly Disagree = 1
- Disagree = 2
- Neither Disagree nor Agree = 3
- Agree = 4
- Strongly Agree = 5

## Question 9

- **Overall, this was a valuable learning experience.**
- Strongly Disagree = 1
- Disagree = 2
- Neither Disagree nor Agree = 3
- Agree = 4
- Strongly Agree = 5

# AWOC Level 1 Evaluation Results

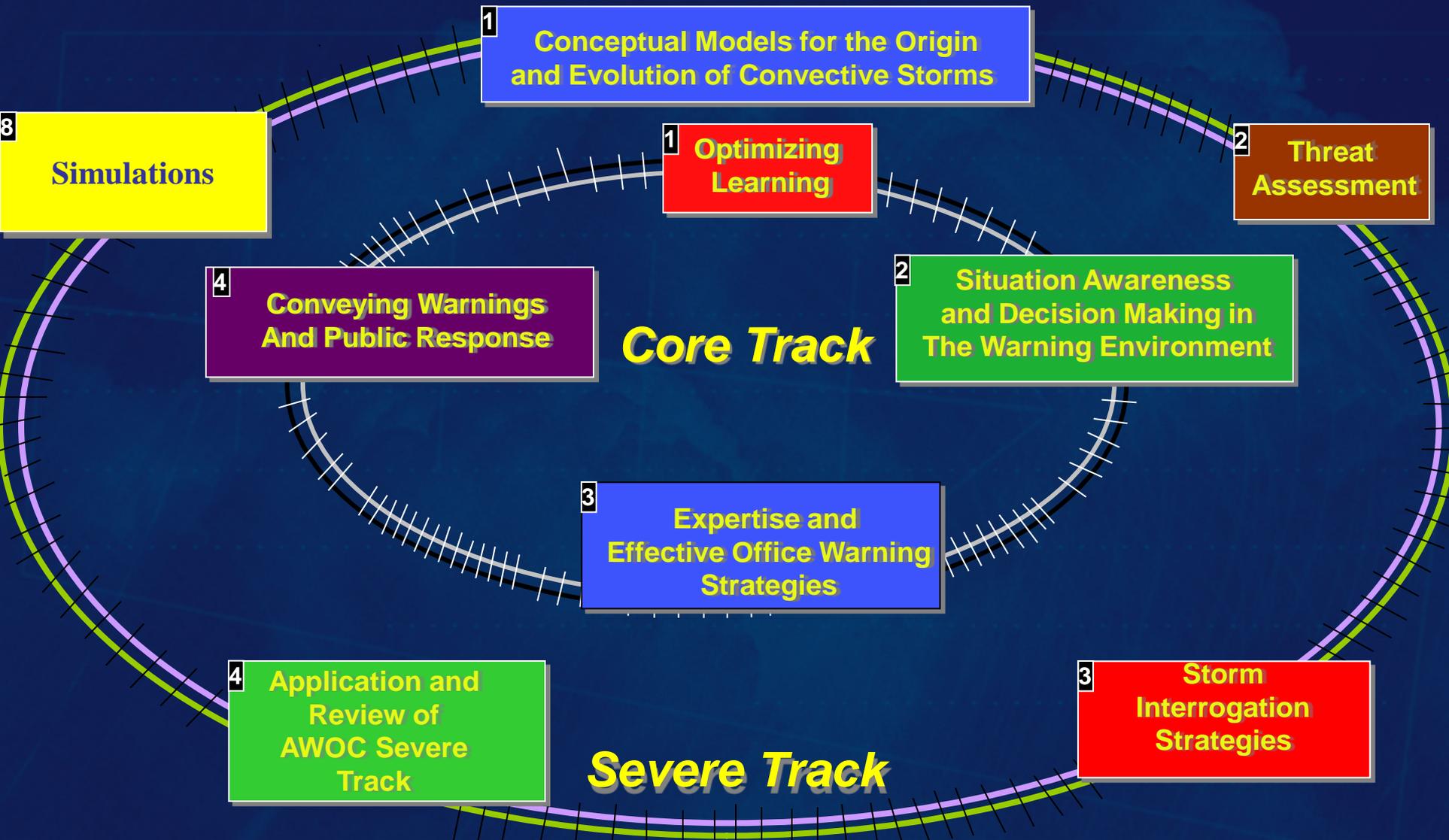
AWOC Severe Q4-9



# What Does This Tell You?

- AWOC is designed pretty well for most WFO Mets
- Live Teletraining not that great
  - can it be better?
- Forecast Contest Value?
- What about Simulations?

# Multiple Tracks in AWOC



# So, What is the AWOC Winter Weather Track?

## AWOC Winter Track

Total = 22 hours\*

IC 1  
Orientation (30 min)

IC 2  
Products and Services (1.5 hrs)

IC 3  
Societal Impacts: Road Weather (2 hrs)

IC 4  
Climatology (3 hrs)

IC 5  
Precipitation Forcing Mechanisms (3.5 hrs)

IC 6  
Forecasting P-type and QPF (3 hrs)

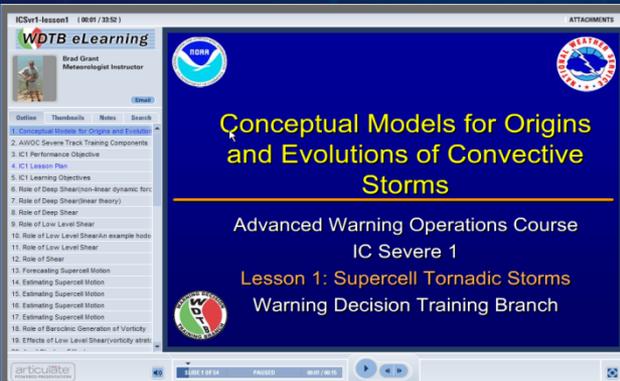
IC 7  
Monitoring (3 hrs)

IC 8  
WES (5 hrs)

\*includes 3 ILTs  
enrollments for  
Platinum Version”

# How are the ICs Structured?

## Instructional Component 1 Conceptual Models for Origins and Evolutions of Convective Storms and Systems (1.5 hrs)



The screenshot shows a web browser displaying the WDTB eLearning interface. The course title is "Conceptual Models for Origins and Evolutions of Convective Storms". Below the title, it indicates the course is part of the "Advanced Warning Operations Course" and "IC Severe 1". The specific lesson is "Lesson 1: Supercell Tornadic Storms" within the "Warning Decision Training Branch". A table of contents is visible on the left side of the page, listing various topics related to convective storms and shear.

Item	Topic
1	Conceptual Models for Origins and Evolutions of Convective Storms
2	AWOC Severe Track Training Components
3	IC1 Performance Objective
4	IC1 Lesson Plan
5	IC1 Learning Objectives
6	Role of Deep Shear (non-linear dynamic forc)
7	Role of Deep Shear (linear theory)
8	Role of Deep Shear
9	Role of Low Level Shear
10	Role of Low Level Shear (An example hodograph)
11	Role of Low Level Shear
12	Role of Shear
13	Forecasting Supercell Motion
14	Estimating Supercell Motion
15	Estimating Supercell Motion
16	Estimating Supercell Motion
17	Estimating Supercell Motion
18	Role of Baroclinic Generation of Vorticity
19	Effects of Low Level Shear (vertically shear)

Lesson 1: Supercell Tornadic Storms  
(35 minutes)

Lesson 2: Hail Storms and Sounding Module  
(20 minutes)

Lesson 3: Flash Flooding  
(30 minutes)

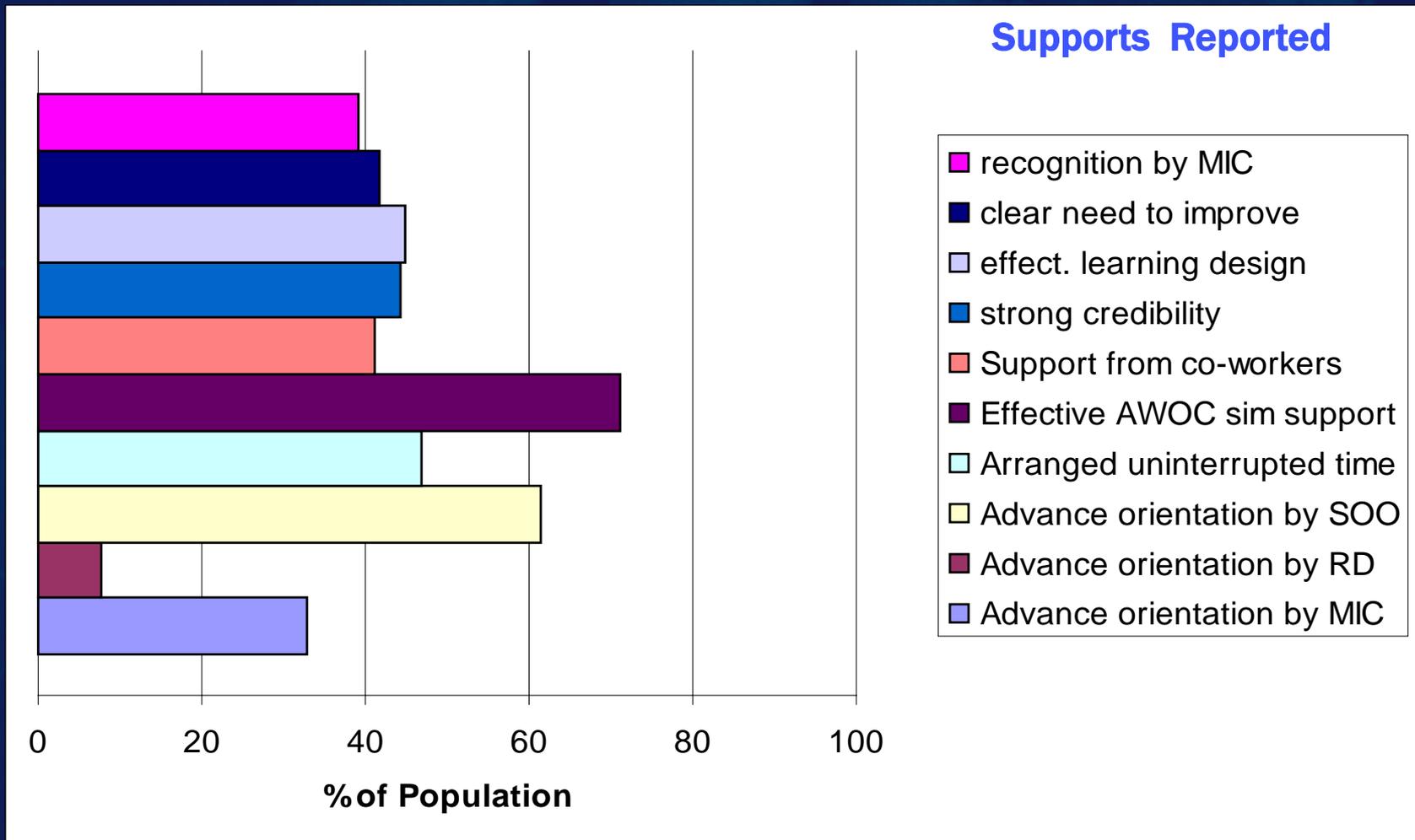
# What is the Picture of Facilitation Success in AWOC?

- Make the learning easier
  - Facilitator should meet with each forecaster to determine individual needs & goals
  - WDTB assigns AWOC Development Plans (Core, Severe, Winter\*)
  - Set up a realistic training completion schedule
  - Set aside resources (TIME!)
  - WES simulations are the glue

\* Hold off for 1 year



# What Were the Supports for Learning AWOC Concepts?



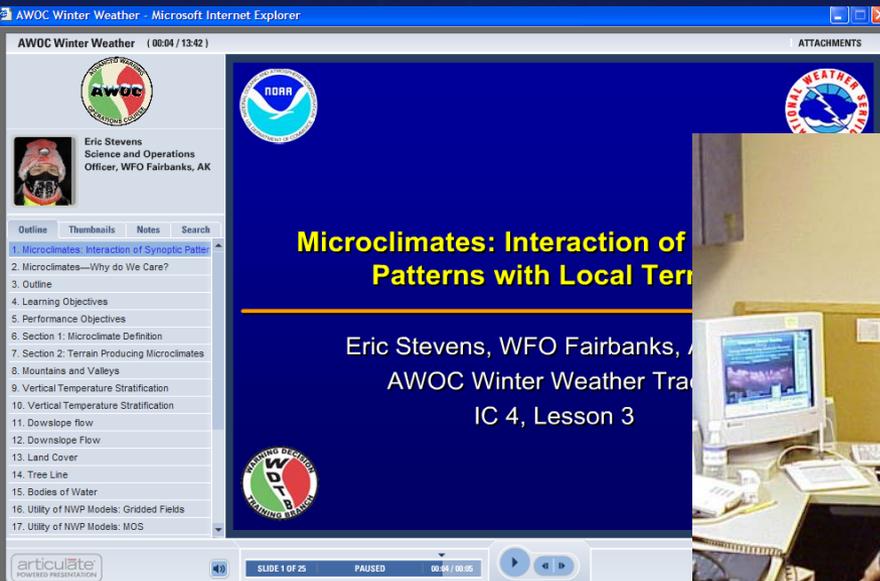
# Barriers

- Time (dedicated shifts)
- LMS Tests (DLOC grads said they were just taking tests, not completing modules; Tests not that good of an indicator of learning)
- Complacency

# Enablers

- Workmates going through course together
- Skilled SOOs/DOHs
- Regional Support
- WDTB support

# Primary Modes of Delivery in AWOC



AWOC Winter Weather (00:04 / 13:42)

Eric Stevens  
Science and Operations  
Officer, WFO Fairbanks, AK

**Microclimates: Interaction of Patterns with Local Terrain**

Eric Stevens, WFO Fairbanks, Alaska  
AWOC Winter Weather Training  
IC 4, Lesson 3

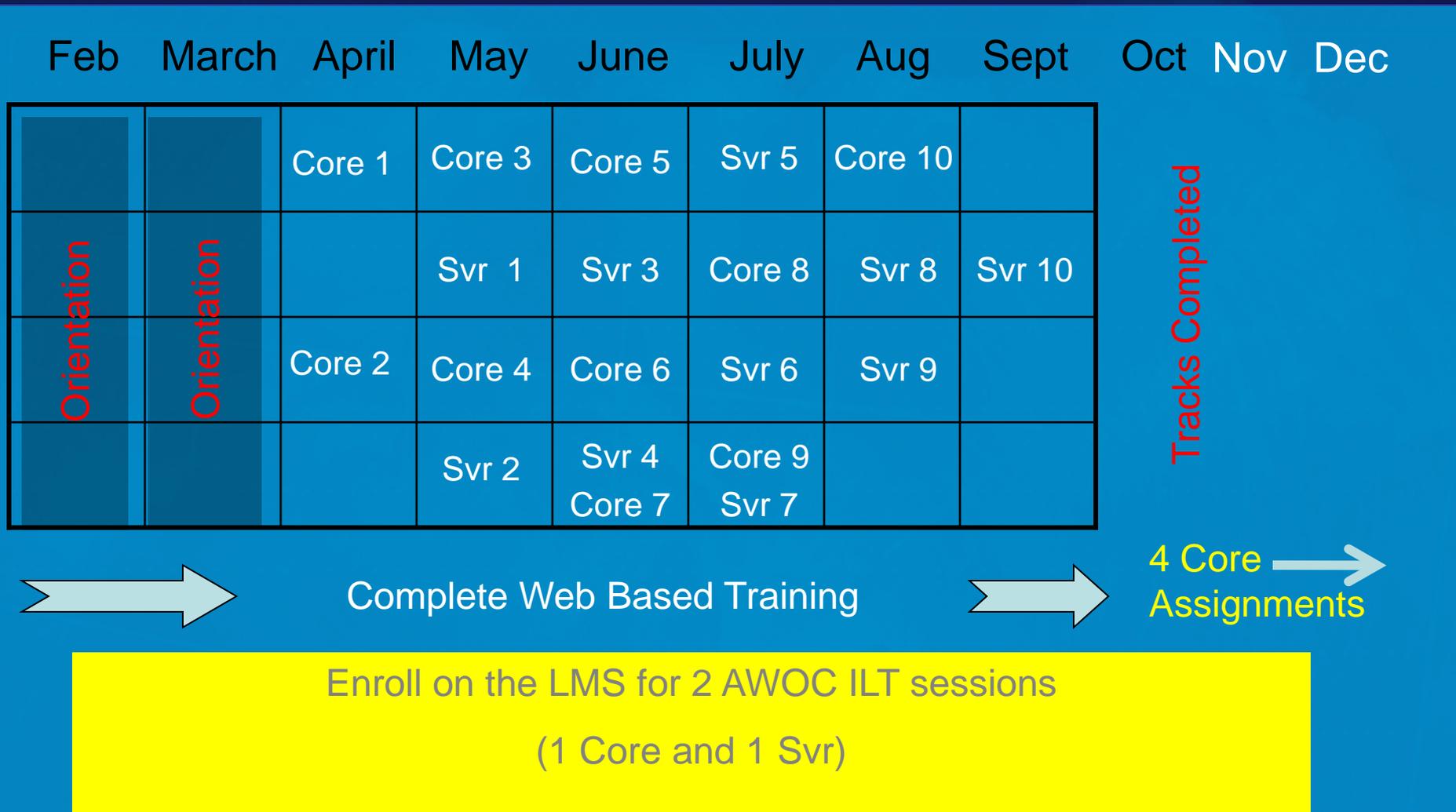
articulate  
POWERED PRESENTATION

SLIDE 1 OF 25 PAUSED 00:04 / 00:05

The screenshot shows a Microsoft Internet Explorer browser window displaying a training slide. The slide features logos for AWOC, NOAA, and the National Weather Service. The title is "Microclimates: Interaction of Patterns with Local Terrain". Below the title, it identifies the presenter as Eric Stevens, Science and Operations Officer at WFO Fairbanks, Alaska, and the slide as "IC 4, Lesson 3". A table of contents is visible on the left side of the browser window, listing 17 topics related to microclimates and terrain. The presentation software at the bottom indicates it is on slide 1 of 25 and is currently paused.

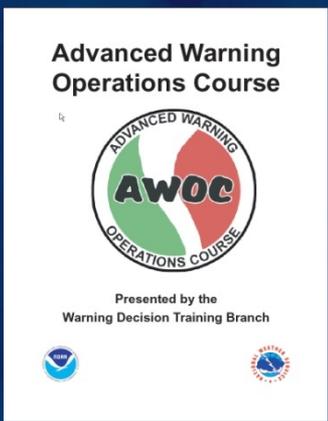


# AWOC Core and Severe Schedule



# Course Materials and Instructions

- Student Guide and Binder (upon request)
- Lesson Presentation DVD
- WES Case Localization Disk



The Warning Decision Training Branch



## Instructions for AWOC FY09 Lesson Archive DVD

Included in your DLOC training materials from the workshop will be a DVD that contains all of the Advanced Warning Operations Course (AWOC) Core and Severe Tracks available on the WDTB web site and through the LMS. The only lesson not included on this disk is the presentation for the AWOC Core 3, Lesson 3 teletraining (which utilizes GotoMeeting, so no presentation download is required prior to the session). This DVD is provided so that you can review the course materials locally and avoid any potential Internet bandwidth issues you might have in your office.

**Although** the vast majority of the course content is on the DVD, you will still need to utilize the NWS Learning Center to take quizzes, complete surveys, and receive credit for completing the course.

**Just** insert the disk into your computer's DVD R/RW drive to start viewing the content. The disk has been designed to start automatically when inserted into your computer. If you have this feature disabled on your machine, you can view the lesson archive by doing the following:

1. Open Windows Explorer and navigate to your DVD folder and
2. Double-click the file **index.html**.

**Other Potential Issues**

- **Flash Player Version** - Most of the presentations on this DVD should work with the Adobe Flash Player version 7 or later. If you encounter problems viewing a presentation on this disk, we suggest you upgrade to the most recent version of Flash Player.
- **Flash Security** - If you haven't done so already, you should include your local training folder as an "Always trust" location in the Flash Player Security Manager. Instructions on how to do perform this task can be found at: <http://www.adobe.com/support/flash/security.html>.  
NOTE: If you do not see the Flash Player Security warning message when you start a lesson, then this task has likely been done.
- **Pop-ups vs. Tabs** - When you select a link, the lessons will pop-up in either new windows or tabs, depending on the current configuration of your browser.

If you have any other questions about the AWOC FY09 Lesson Archive DVD, please contact Andy Wood ([Andrew.C.Wood@noaa.gov](mailto:Andrew.C.Wood@noaa.gov)), or 405-325-3005.

# Forecast Contest



# Other AWOC Issues?

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