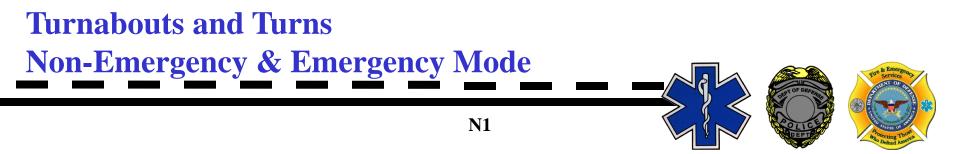




Basic Emergency Vehicle Operators Course





Objectives:

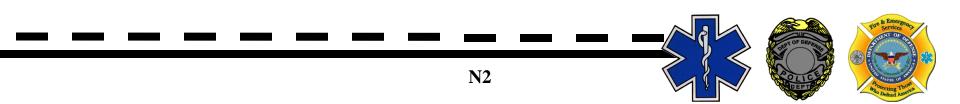
By the end of this module, students will be able to:

Be able to name the safest type of turnabout

Given three illustrations, will be able identify the correct path for a EV making a U Turn

Given an illustration of each turnabout be able to identify the correct path for an EV make a left and right side road turnabout.

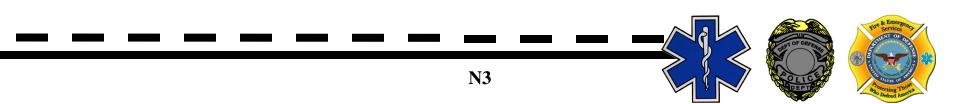
Understand how Driving too fast for conditions can effect turnabouts and turns





Guidelines:

Some agencies have guidelines on when to turn (or not to turn) on a public roadway. In lieu of any definite guidance, the following slides offer some suggestions:





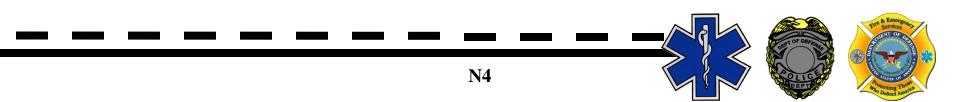
Guidelines:

The time required to complete the turnaround or reverse direction of travel can create a hazardous situation.

It may be illegal in some areas unless in an emergency mode

The area needed to complete the turnaround should be sufficiently large enough for the vehicle to turn around.

Sometimes going around the block may be safer and faster (size of vehicle considerations)





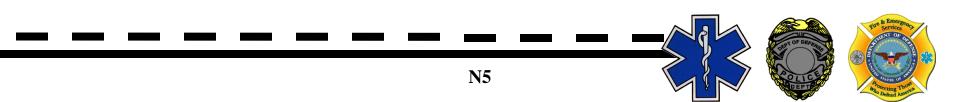
Guidelines:

Choose safe location for turnabout

Make sure you have good visibility

Clear view of the entire path of travel and all traffic lanes

Avoid hills, blind intersections





Turn Classifications Constant Radius (90°)

Requires constant, consistent steering

Decreasing Radius (90°)

Requires gradual, then sharper steering

Increasing Radius (90°)

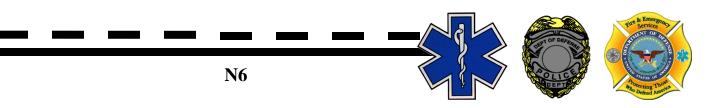
Requires sharp to gradual steering

Multiple Turn / Complex Situations

Several Steering Inputs

U Turns (180°)

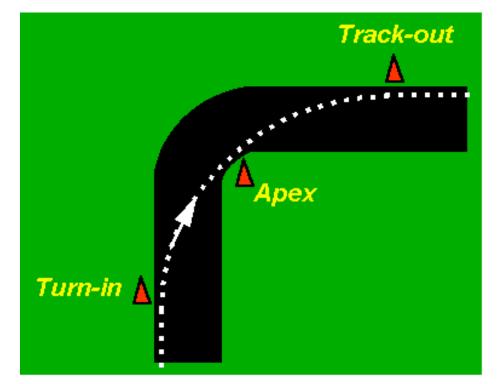
Constant and smooth steering

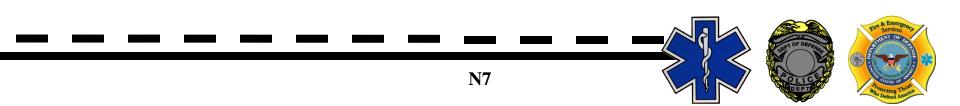




Constant Radius (90°) High Side Low Side High Side

This method of increasing the radius of the curve you are going to take only works when you are on a road with no oncoming traffic and you have an unobstructed view around the curve.

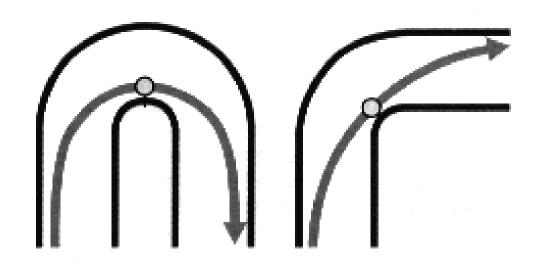


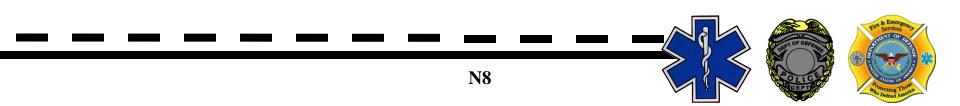




Constant Radius (90°)

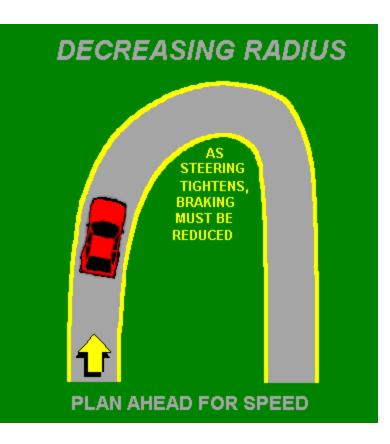
Other Examples

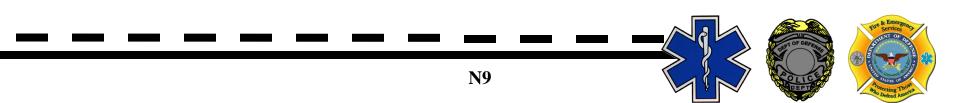






Decreased Radius Speed needs to be reduced Requires additional steering input

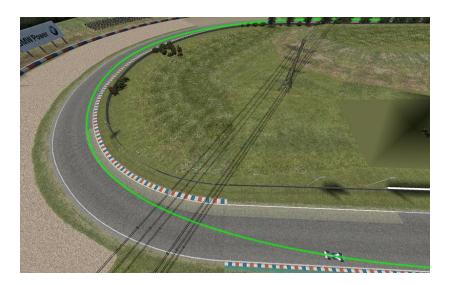






Increased Radius

You can increase the radius of the curve on how you handle it. By increasing the radius of the curve you are going to enter the curve from the high side to the low side and exit the curve on the high side. This only works when you are on a road with no oncoming traffic and you have an unobstructed view around the curve.

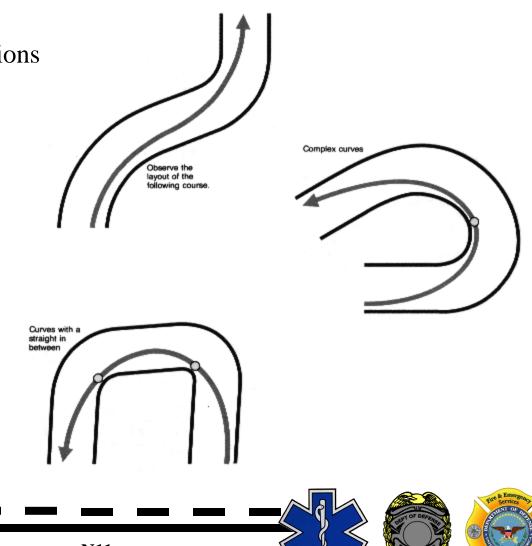






Turnabouts and Turns

Turn Classifications Multiple Turn Situations Complex Curves

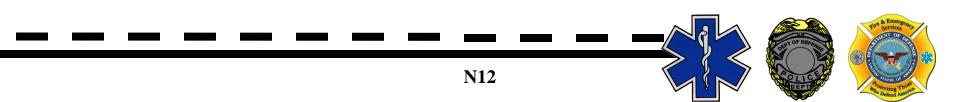




Turn Types: U Turn

Two Point Turns

Three Point Turns / Y Turns





U Turns:

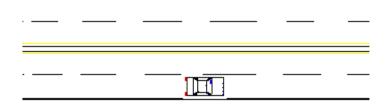
Least hazardous

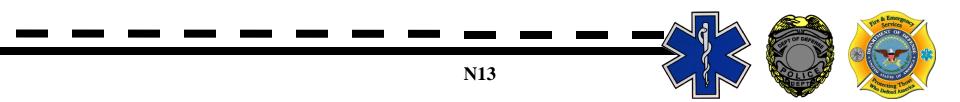
Easiest to perform

Less exposure to any conflicting traffic

Vehicle maneuver is constant

Illegal in many areas (EV not exempt unless in emergency mode)

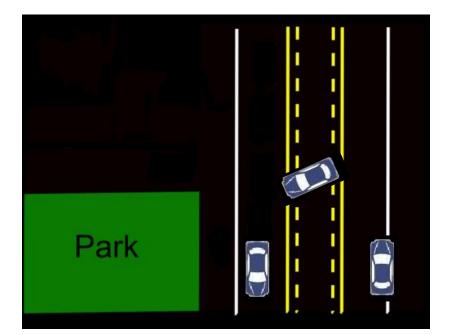


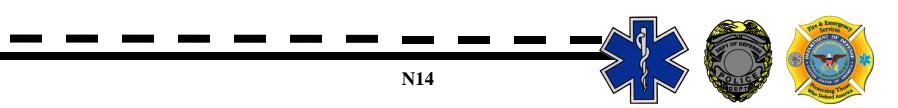




U Turns (180°)

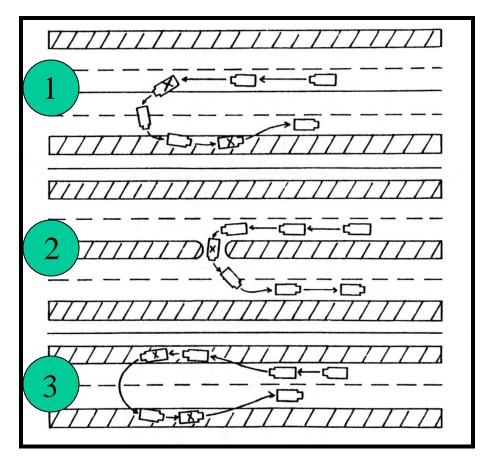
Slow vehicle Pull to extreme right of lane or shoulder Check traffic Signal intent to turn Do not accelerate until after the turn is completed If the turn cannot be completed in one motion, back-up only so far as to allow for completion of the u-turn







Different road configurations:







U Turn

You must develop the coordination of acceleration, turning, judgment or road width and signaling.

You Must

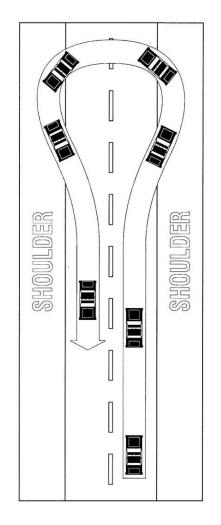
Signal your intent to turn at least 100 ft in advance.

Maintain smooth acceleration and steering control.

Make head-checks before executing the turn

Complete the turn in one movement

Follows through with counterclockwise or clockwise turn.





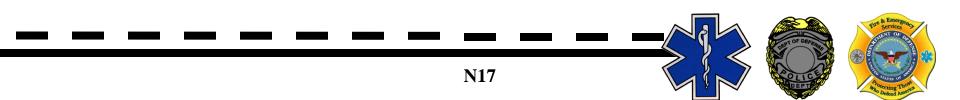






Two Point Turns:

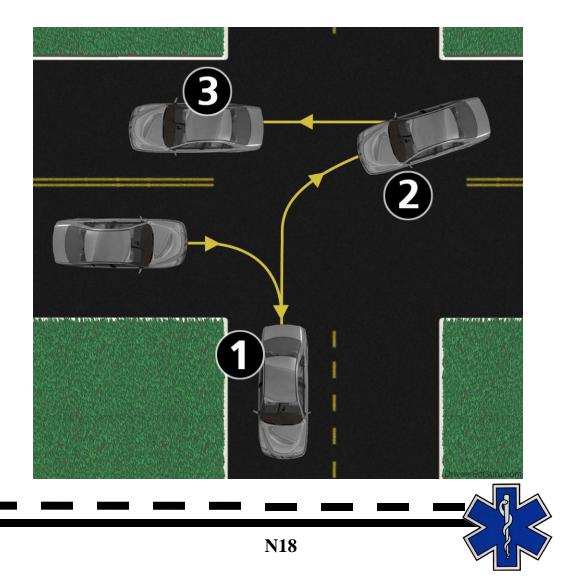
Made when roadway is too narrow for U-Turns Made when visibility is restricted Used when an alley or side street is available Driveways are PRIVATE PROPERTY





Turnabouts and Turns

Two Point Turns:

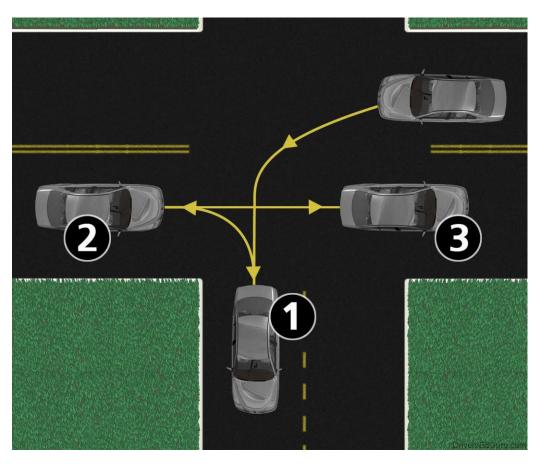


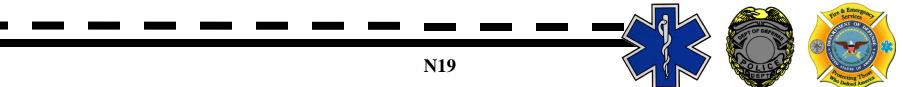




Turnabouts and Turns

Two Point Turns:





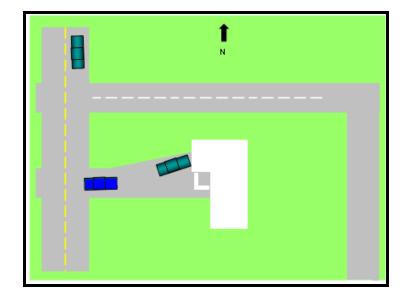


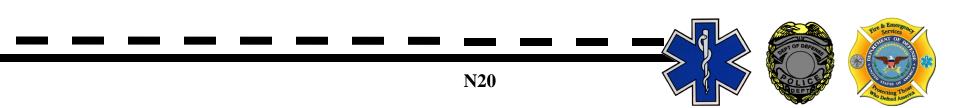
Why you would not want to use a private driveway:

Requires it to be wide enough Any damage caused to the apron or driveway may be liable to the department for damages.

Requires a backing movement where the roadway will have to be checked for traffic before and during maneuver

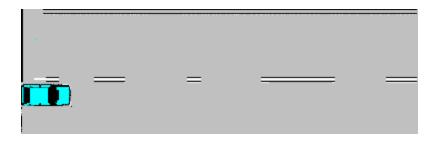
Driveway's are private property only use as a last resort.

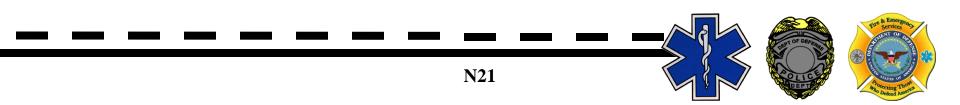






Three Point Turns or Y Turns Are the most hazardous Made when the roadway is too narrow for a U – Turn Made when there are no alleys or side roads Made when traffic is light



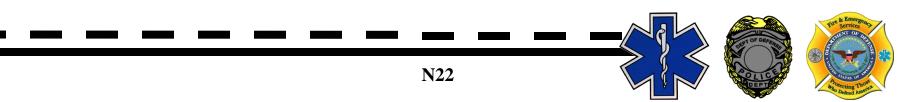




Turnabouts and Turns

Three Point Turns or Y Turn







Three Point Turns: 1 It is okay to let your bumper go over the curb, but don't let your 2 Try to establish a 45° angle from the curb. wheels touch the curb. Remember to be alert to traffic from both directions before 3 executing this last move.

N23



Y - Turn

You will develop the coordination of acceleration, turning, judgment of road width, and signaling.

You must:

Check rear traffic and signal for a stop at least 100 ft. in advance

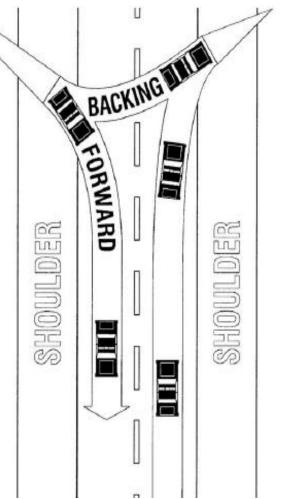
Brings vehicle to a stop at approximately a 15 degree angle from the center of the road

Begins backing turning the wheel slowly for the first five feet.

Steers counter –clockwise until rear wheels barely hit the shoulder.

Moves forward into the right lane.

Maintains proper hand position on the steering wheel Completes the turn smoothly.









Summary

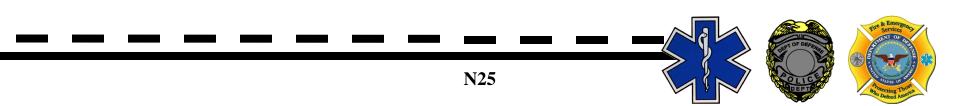
Making turns is one of the basic task in driving All most all intersections have to be negotiated by making a turn.

Decide early if you are going to need to make a turn.

Never make a last second turn.

Always use turn signals.

In the emergency mode, if any exemptions are being exercised, while turning make sure emergency signaling equipment is activated.





REVIEW QUESTIONS

1) What are three essential points of reference when negotiating a constant radius turning maneuver?

2) When negotiating a constant radius turn what is the biggest concern?

3) What is the drivers best course of action when negotiating a roadway with multiple turns?

4) Which type of turn is the least hazardous, easiest to perform and has the least exposure to conflicting traffic?

5) Which type of turn is the most hazardous?

