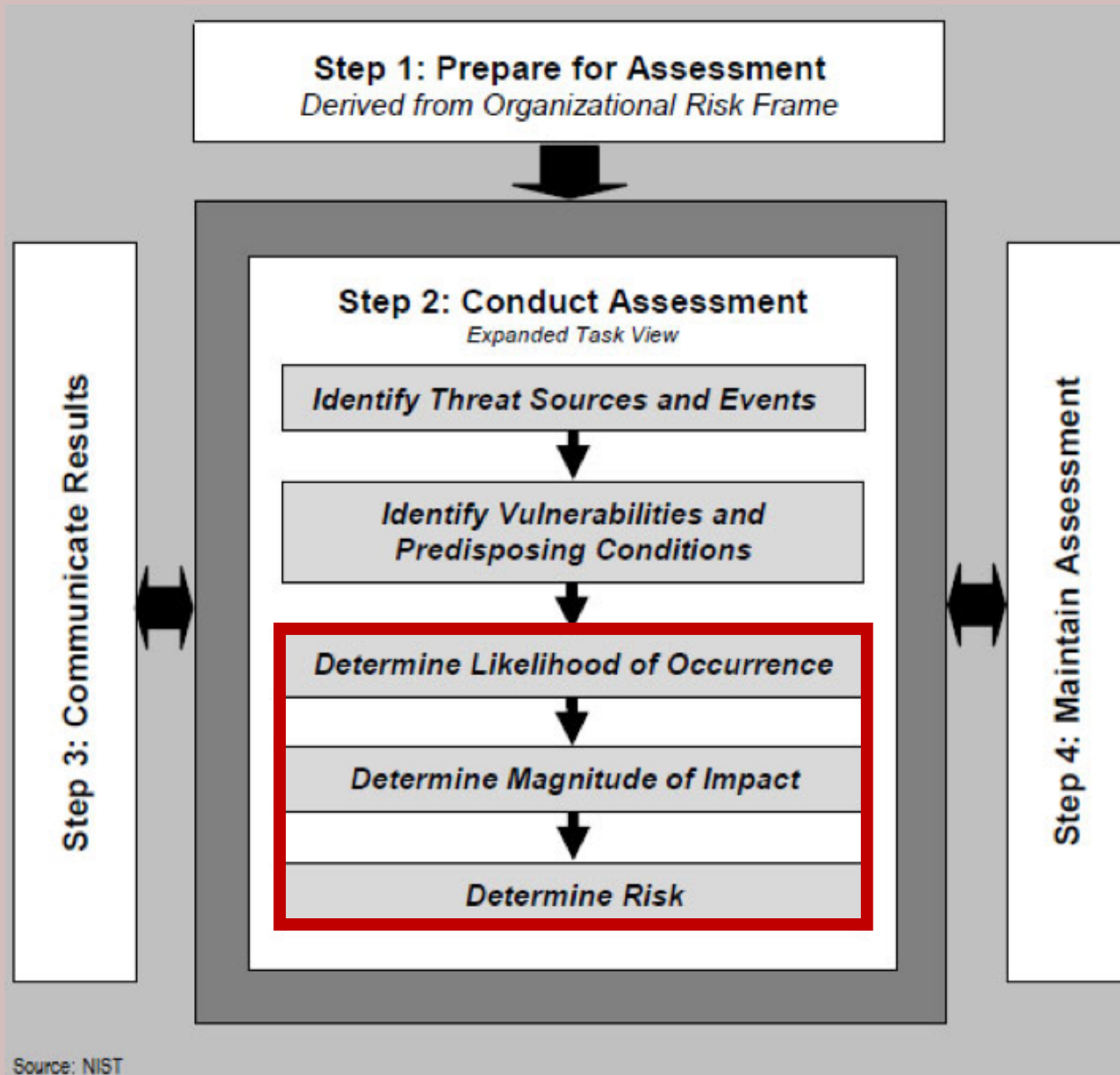




Likelihood, Impact, and Risk

THREAT MANAGEMENT

NIST SP 800-30



Source: NIST



JASON DION
TRAINING THE CYBER SECURITY WORKFORCE



Likelihood and Impact

- Measurement of the risk that the combined threat and vulnerability pose is based on the likelihood and impact
- Likelihood is the chance that the risk will be realized
- Impact is the severity of damage that occurs if the risk is realized



Likelihood Factors

- What is the likelihood that the threat will initiate the risk?
 - Example: How likely is it that the hacker attack us?
- What is the likelihood that if the risk occurs it will have a bad impact for us?
 - Example: If the organization has proper security controls, the threat may be mitigated with no adverse affects to the organization.
- Likelihood is qualitative
 - Low, Medium, High



Impact

- Always assume the threat takes place and the risk is realized when measuring
- Identify the severity of the impact
- Consider each of the pieces of CIA triad: confidentiality, integrity, and availability
- Impact is qualitative
 - Low, Medium, High

