

Domain-3 Recorded Sessions as per CSP 11.0 Blueprint

- As available on LMS portal

Learning Notes and Practice Quiz as per CSP 11.0 Blueprint

- Learning Notes D3
- Practice Quiz D3

Reference Study Material

- Ch. 34 – Risk Assessment and Risk Management (Roger Bruer)

OSHA Standards:

- o OSHA 3071 – Job Hazard Analysis

Web Resources

- <https://www.osha.gov/safety-management>
- <https://www.osha.gov/job-hazard-analysis>
- <https://www.cdc.gov/niosh/topics/hierarchy/>
- <https://www.osha.gov/safetypays>

CSP Domain 3 – Risk Management (15%)*(Structured Reference Sheet for Study & Traceability)*

Source Blueprint:

Domain 3 – Risk Management**Blueprint Areas**

1. Apply general principles of the safety risk evaluation process
2. Apply risk management strategies to identify and mitigate EHS hazards
3. Differentiate financial risk mitigation strategies
4. Apply risk analysis processes for disasters, fire prevention, occupational health, hazardous materials, and environmental compliance

1. General Principles of Risk Evaluation Process*(Hazard Identification → Risk Analysis → Risk Evaluation → Risk Control → Monitoring & Communication)***■ Yates Reference**

- Ch. 1 – The Safety Profession and CSP Examination Blueprint
- Ch. 4 – Regulations
- Ch. 12 – Fire Prevention and Protection
- Ch. 16 – Electrical Safety
- Ch. 14 – PPE
- Ch. 8 – Industrial Hygiene Air Sampling

■ Brauer Reference**Ch. 34 – Risk, Risk Assessment and Risk Management (Primary Chapter)**

- Ch. 35 – Safety Management
- Ch. 36 – System Safety
- Ch. 37 – Safety Analyses and Management Information

Key CSP Concepts

- Hazard Identification
- Exposure Assessment
- Probability
- Severity
- Risk Matrix
- Acceptable Risk
- Residual Risk
- ALARP (As Low As Reasonably Practicable)

🏢 OSHA References

- OSHA Recommended Practices for Safety and Health Programs
- OSHA Job Hazard Analysis (JHA)

🌐 Key Links

- <https://www.osha.gov/safety-management>
- <https://www.osha.gov/job-hazard-analysis>

2. Risk Management Strategies*(Hazard Identification & Mitigation)***■ Yates Reference**

- Ch. 4 – Regulations
- Ch. 12 – Fire Prevention

- Ch. 14 – PPE
- Ch. 16 – Electrical Safety
- Ch. 13 – Thermal Stressors
- Ch. 10 – Noise and Hearing Conservation

Brauer Reference

- Ch. 9 – General Principles of Hazard Control
- Ch. 34 – Risk Assessment and Risk Management
- Ch. 36 – System Safety
- Ch. 38 – Safety Plans and Programs

OSHA References

- OSHA Job Hazard Analysis Guide
- OSHA Safety Management Guidelines

Key Links

- <https://www.osha.gov/job-hazard-analysis>
- <https://www.cdc.gov/niosh/topics/hierarchy/>

3. Financial Risk Mitigation Strategies

Yates Reference

- Ch. 1 – Safety Profession
- Ch. 2 – Legal Aspects of the Safety Profession

Brauer Reference

- Ch. 34 – Risk Management
- Ch. 35 – Safety Management
- Ch. 38 – Safety Plans and Programs

Key CSP Concepts

Risk Avoidance

Eliminate activity creating risk.

Risk Retention

Accept risk and absorb losses internally.

Risk Transfer

Transfer risk through contracts or insurance.

Risk Sharing

Joint venture, partnership, pooled insurance.

Loss Prevention

Reduce probability of occurrence.

Loss Reduction

Reduce severity after event occurs.

Exam Focus

BCSP frequently tests:

- Insurance concepts
- Self-insurance
- Deductibles
- Workers' compensation
- Third-party liability
- Contractual transfer of risk

OSHA References

No specific OSHA standard.

Related References:

- OSHA "Safety Pays" Program
- Workers' Compensation Principles

Key Links

- <https://www.osha.gov/safetypays>

4. Risk Analysis for Major EHS Programs

A. Disaster & Emergency Preparedness

Yates Reference

- Ch. 12 – Fire Prevention and Protection
- Ch. 11 – Biological Hazards

Brauer Reference

- Ch. 29 – Emergencies and Security
- Ch. 38 – Safety Plans and Programs

OSHA References

- 29 CFR 1910.38 – Emergency Action Plans
- 29 CFR 1910.165 – Employee Alarm Systems

Key Concepts

- Business Continuity
- Emergency Response
- Crisis Management
- Incident Command System (ICS)

B. Fire Prevention Risk Analysis

Yates Reference

- Ch. 12 – Fire Prevention and Protection (**Primary**)

Brauer Reference

- Ch. 16 – Fire Protection and Prevention

OSHA References

- 29 CFR 1910.39 – Fire Prevention Plans
- 29 CFR 1910.157 – Fire Extinguishers

C. Occupational Health Risk Analysis

Yates Reference

- Ch. 7 – Toxicology
- Ch. 8 – Industrial Hygiene Air Sampling
- Ch. 9 – Ventilation
- Ch. 10 – Noise
- Ch. 11 – Biological Hazards
- Ch. 13 – Thermal Stressors

Brauer Reference

- Ch. 18 – Heat and Cold
- Ch. 21 – Non-Ionizing Radiation
- Ch. 22 – Ionizing Radiation
- Ch. 23 – Noise and Vibration
- Ch. 24 – Chemicals
- Ch. 25 – Ventilation
- Ch. 26 – Biohazards

- Ch. 33 – Ergonomics

OSHA References

- 1910.95 – Noise
- 1910.134 – Respiratory Protection
- 1910.1000 – Air Contaminants
- 1910.1053 – Silica

D. Hazardous Materials Management**■ Yates Reference**

- Ch. 4 – Hazard Communication
- Ch. 6 – Particulates and Gases
- Ch. 7 – Toxicology

■ Brauer Reference

- Ch. 24 – Chemicals
- Ch. 27 – Hazardous Waste

OSHA References

- 29 CFR 1910.1200 – Hazard Communication
- 29 CFR 1910.120 – HAZWOPER

E. Environmental Compliance Risk Analysis**■ Yates Reference**

- Sustainability discussions in Ch. 1
- Environmental considerations throughout regulations chapters

■ Brauer Reference

- Ch. 27 – Hazardous Waste
- Ch. 35 – Safety Management

Related References

- EPA Regulations
- ISO 14001
- Environmental Management Systems

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