



Course Name	Risk Management for Electrical Construction Projects
Credit Hours	4 Hours
Course Description	The course identifies typical risks found on electrical construction projects and risk-management-techniques that can be used to mitigate those risks.
Course Objectives	<p>At the completion of the course, students can expect to be able to:</p> <ul style="list-style-type: none">• Describe project constraints and variables for controlling risks• Describe how improving communications can minimize risks• Identify safety precautions used to mitigate risks to workers• Identify how to develop good financial fundamentals and accurate reporting• Describe common worries for contractors and workers that impact worker safety• Describe how implementing safety helps to minimize risks• Describe how proven project management guidelines can minimize risks• List what new technology is being used to minimize risks• Describe how to grade a risk for probability and consequence• Describe how to use an S-Curve for earned value management• Describe how the Monte Carlo method is used to minimize risks• Describe how new software is used to minimize risks• List where to find additional risk management training
Course Timed Syllabus	Attached
Method of Presentation	This online course uses text and graphics. Multiple choice questions are used to test how well the student understands the material. Each answer choice has a response which tells

the student whether the selected answer is correct or not. A running score is displayed so each person can track their progress through the class.

Schedule and Location

This course may be taken at any time at www.JadeLearning.com. The student may sign in and out of the course as many times as needed to complete the course.

Attendance Verification

This course uses personal identification questions to verify attendance. A set of five simple personal ID questions are asked of a licensee before they start a course and then again, randomly, throughout the course (at least one question is asked every 30 minutes). All questions have four preset answer choices. The licensee must answer in the same way as they did at the start of the course to be able to continue training.

This course also employs an inactivity timer, which will automatically log a licensee out of the training if the system does not sense a mouse click within 30 minutes. At the end of the course, the licensee must affirm their name, that they are the one who completed the course, and verify that their registration information is correct.

Method of Evaluation

The licensee must complete all 80 multiple choice questions with a score of at least 75% in order to get credit for the course. Question choices are randomized, so each participant will have a unique testing experience. The course is also timed; participants will not get credit until they spend at least 200 active minutes in the course. Lastly, this course is set up to allow users to go back through the section questions and re-answer questions while they meet the time requirement.

Online Review Access

To review this course, go to www.JadeLearning.com. Click on the orange Login button on the top right and sign into the learning system using the login information below.

Username: UTEtester

Password: UTEtester

Instructor(s)

Jerry Durham (resume attached)

Cost

\$49.00

Risk Management for Electrical Construction Timed Syllabus

Section	Title	Questions	Minutes
1	Construction Risk Introduction	2	5
2	Understand the Contract	2	5
3	Control the Scope	2	5
4	Develop Accurate Cost Estimates and Bids	2	5
5	Project Bid Development Guidelines	2	5
6	Capture Risks and Assumptions in the Bids	2	5
7	Mitigate Risks with Value Management	2	5
8	Develop Detailed Schedule to Meet Contract	2	5
9	Key Words and Terms in Detailed Schedules	2	5
10	Resource Loaded Schedule	2	5
11	Establish an Acquisition Strategy	2	5
12	Qualified Team	2	5
13	Communications a Must	2	5
14	Project Status Communication Tools	2	5
15	Accurate Performance Reporting	2	5
16	Effective Negotiation	2	5
17	Complex Negotiating	2	5
18	When to say "No Deal"	2	5
19	Improving Cash Flow	2	5
20	Construction Worksite Safety Violations and Fatalities	2	5
21	Elevated Work Surfaces	2	5
22	Struck by An Object	2	5
23	Electrical Hazards	2	5
24	Caught-In or Caught-Between Machines and Materials	2	5
25	Improve Safety and Productivity Use Augmented and Virtual Reality Technologies	2	5
26	Use Robots, Drones and Simulators to Reduce Construction Safety Risks	2	5
27	Control Damage and Theft	2	5
28	Address Environmental Concerns	2	5
29	Electrical Contractors and Workers Worries	2	5
30	Excessive Overtime and Other Factors that Reduce Productivity	2	5
31	New Technology	2	5
32	Risk Management Plan and Assessment Report	2	5
33	Risk Workshops – Threats and Opportunities	2	5
34	Risk Grading Guidance	2	5
35	Risk Register/Log – Putting it all Together	2	5
36	Risk Management Training	2	5
37	Software to Assist with Managing Construction Risks	2	5
38	Monte Carlo – Why Care?	2	5
39	Electrical Contractor Benefit of Using BIM Technology	2	5
40	Reduce Construction Risk	2	5
Totals:		80	200
Time Required to Complete Course:			200