



## METALLURGICAL AND MATERIALS ENGINEERING PROFESSIONAL ENGINEER (PE) LICENSING EXAM REVIEW COURSE

August 20–22, 2015 • TMS Headquarters  
184 Thorn Hill Road, Warrendale, PA, USA

### **STUDYING FOR THE PE EXAM?**

**Register by July 20**

Registration Fee: **\$1,375**

Attend the **TMS Metallurgical and Materials Engineering PE Licensing Exam Review Course** for a refresher training led by seven professionals/experts to help prepare you for the exam.

This preparation course will address a variety of approaches and methodologies, including design, analysis, application, and operations. The knowledge areas covered in the course will be reflective of the exam specifications, as published by National Council of Examiners for Engineering and Surveying (NCEES).

### **MEET THE INSTRUCTORS:**

**Charles V. White**, Kettering University

**Indrajit Charit**, University of Idaho

**Alphonse W. Hegger Jr.**, Stress Engineering Services

**George Krauss**, Colorado School of Mines

**Dana Medlin**, Engineering Systems Inc.

**Erik Mueller**, National Transportation Safety Board

**Steven R. Sopher**, JSP

Visit the course website for more information on the instructors, registration, hotel accommodations, and course outline: [www.tms.org/PEReview](http://www.tms.org/PEReview)

The course will be based on the NCEES Principles and Practice of Engineering Examination Metallurgical and Materials Exam Specifications, effective beginning with the October 2015 examination. For more information on the exam, visit [www.tms.org/PE](http://www.tms.org/PE).

## **COURSE SCHEDULE:**

*Shuttle transportation to and from the DoubleTree Hotel to TMS Headquarters, breaks, and lunch will be provided daily by TMS.*

<b>Thursday, August 20</b>	
8:15 a.m.	Introductions and Exam Format Review
8:30 a.m.	Basics Crystal Structures, Chemistry, and Phase Diagrams
10:30 a.m.	Physical Metallurgy of Steel
12:30 p.m.	Lunch
1:00 p.m.	Physical Metallurgy of Steel
2:00 p.m.	Mechanical/States of Stress
4:00 p.m.	Processing
5:00 p.m.	Questions

<b>Friday, August 21</b>	
8:00 a.m.	Chemical Analysis Techniques, Metallography Nondestructive Testing
10:00 a.m.	Performance
12:00 p.m.	Lunch
12:30 p.m.	Mechanical Behavior of Composites & Heterogeneous Material and High Temperature Degradation
2:30 p.m.	Fitness for Service & Life Prediction
4:30 p.m.	Questions

<b>Saturday, August 22</b>	
8:00 a.m.	Testing and Analysis
10:00 a.m.	Corrosion Mechanisms & Environmental Compatibility
12:00 p.m.	Lunch
12:30 p.m.	Polymers and Strengthening Mechanisms for Polymers
1:30 p.m.	Statistics
2:30 p.m.	Joining Processes/Coatings
4:00 p.m.	Wrap-up/Evaluation

For a detailed course outline, visit the Technical Program page of the course website at:  
[\*\*www.tms.org/PEReview\*\*](http://www.tms.org/PEReview)